JVC

SERVICE MANUAL

COLOUR TELEVISION

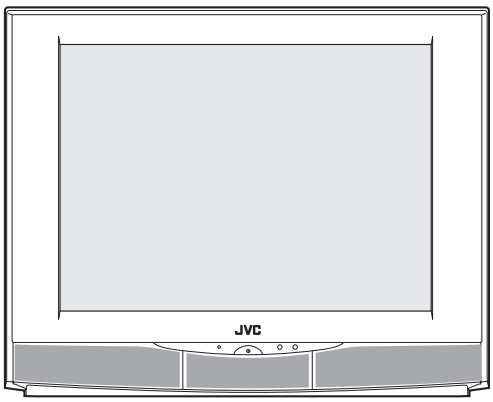
HV-Z29J4,
HV-Z29J4/H,
HV-Z29J4/S

BASIC CHASSIS
MM2

D.I.S.T. Digital Image Scaling Technology

VIRTUAL DOLBY SURROUND

BBE DIGITAL



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No.YA207
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SPECIFICATION

Items		Contents
Dimensions (W × H × D)		73.1cm × 49.5cm × 62.2cm
Mass		46.0kg
TV RF System		B, G, I, D, K, M
Colour System		PAL / SECAM / NTSC 3.58 / NTSC 4.43
Stereo System		A2 (B/G), NICAM (B/G, I, D/K)
Receiving Frequency	VHF Low VHF High UHF CATV	46.25MHz ~ 168.25MHz 175.25MHz ~ 463.25MHz 471.25MHz ~ 863.25MHz Mid (X ~ Z+2, S1 ~ S10) / Super (S11 ~ S20) / Hyper (S21 ~ S41) bands
Intermediate Frequency	VIF SIF	38.0MHz (B, G, I, D, K, L) 32.26MHz (5.74MHz: B), 32.15MHz (5.85MHz: G), 31.45MHz (6.55MHz: I) 32.15MHz (5.85MHz: D), 32.15MHz (5.85MHz: K)
Colour Sub Carrier	PAL SECAM NTSC	4.43MHz 4.40625MHz / 4.25MHz 3.58MHz / 4.43MHz
Teletext System		FLOF (Fastext), TOP, WST (World Standard System)
Power Input		AC 110V - AC240V, 50Hz/60Hz
Power Consumption		177W (Standby : 2.1W)
Picture Tube		Visible size : 67.6cm (Measured diagonally), H: 55.4cm × V: 41.4cm
High Voltage		31.0kV±0.2kV [at zero beam current]
Speaker		6.5cm × 13cm, oval type × 2
Audio Power Output		10W + 10W
Aerial Input		75 Ω unbalanced, coaxial
Video / Audio [Input-1/2/3/4]	Component Video [Input-2/3] 1125i / 750p 625p / 525p 625i / 525i S-Video [Input-1/4] Video Audio	RCA pin jack × 6 Y : 1V (p-p) (Sync signal: ±0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1V (p-p), Positive (Negative sync provided), 75 Ω Pb/Pr : 0.7V(p-p), 75 Ω Mini-DIN 4 pin connector × 2 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 4 500mV (rms), High impedance, RCA pin jack × 8
Video / Audio Output	Video Audio	1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1 500mV (rms), Low impedance, RCA pin jack × 2
Headphone Jack		3.5mm Stereo mini jack × 1
AV COMPULINK		3.5mm mini jack × 1
Remote Control Unit		RM-C1851 (AA/R6 dry cell battery × 2)

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual**. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.

(5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).

(6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

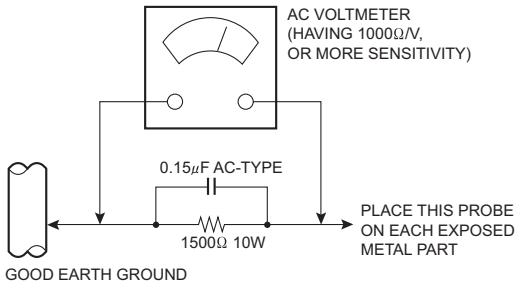
(8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(9) **Isolation Check (Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

b) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000Ω per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

D.I.S.T. (Digital Image Scaling Technology)
This system uses line interpolation to double the number of scanning lines and achieve high resolution, flicker-free picture.

ZOOM
This function can change the screen size according to the picture aspect ratio.

DIGITAL VNR
This function cuts down the amount of noise in the original picture.

Super DigiPure
This function uses the latest in digital technology to give you a natural-looking picture.

PULL DOWN
This function displays a cinema film picture more smoothly and naturally on the screen.

Dolby Virtual
This function makes you enjoy sounds with Virtual Dolby Surround sound.

3D CINEMA SURROUND
This function makes you enjoy sounds with a widerambience.

SUPER BASS
This function can choose the SUPER BASS mode which emphasises the bass sound.

RETURN +
This function can set a channel you frequently view to the Return Channel and you can view that channel at any time with one-touch.

AI ECO SENSOR
This function can adjust this TV so that the screen automatically adjusts to the optimum contrast according to the brightness of your room. This function reduces eye strain and the power consumption of this TV.

2.2 MAIN DIFFERENCE LIST

Item	HV-Z29J4	HV-Z29J4/H	HV-Z29J4/S
Power Plug Type	Round 2-pin type	UK 3-pin type	←
MAIN PWB	SMM-1251A-H2	←	SMM-1252A-H2

2.3 TECHNICAL INFORMATION

2.3.1 MAIN CPU PIN FUNCTION [IC001 : MI-COM PWB ASS'Y]

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	TCK	--	Not used	65	D2	I/O	Data bit for PP-RAM/SD-RAM
2	TMS	--	Not used	66	D12	I/O	Data bit for PP-RAM/SD-RAM
3	TDI	--	Not used	67	D10	I/O	Data bit for PP-RAM/SD-RAM
4	TDO	--	Not used	68	VSS33	--	GND
5	P2.8	I	Remote control	69	VDD33	I	3.3V
6	P2.9	I	Key scan for front control : CH+, Volume-, TV/VIDEO (On: L)	70	D4	I/O	Data bit for PP-RAM/SD-RAM
7	P2.10	I	Key scan for front control : CH-, Volume-, Volume+ (On: L)	71	D3	I/O	Data bit for PP-RAM/SD-RAM
8	P2.11	I	Key scan for front control : MENU, Volume+, TV/VIDEO (On: L)	72	D11	I/O	Data bit for PP-RAM/SD-RAM
9	P2.12	I	Receive data for AV COMPULINK	73	RSTIN	I	Reset for main CPU
10	P2.13	O	Power on /off control (ON: L)	74	P3.0	O	Clock for Inter IC control bus (for I-P)
11	P2.14	I	Low B short / CRT neck Protection detection (Detect : L)	75	P3.1	I/O	Data for Inter IC control bus (for I-P)
12	P2.15	I	Main power detection (Detect : L)	76	P3.2	I	Remote control
13	VSS33	--	GND	77	P3.3	O	Headphone muting (Muting: H)
14	VDD33	I	3.3V	78	P3.4	O	Audio muting (Muting: H)
15	P4.5	O	Not used	79	P3.5	O	Audio muting (Muting: H)
16	A20	O	Not used	80	P3.6	O	Not used
17	A19	O	Address bit for PP-RAM/SD-RAM	81	P3.7	O	I-P converter reset (ON : L)
18	A18	O	Address bit for PP-RAM/SD-RAM	82	P3.8	O	Power LED lighting (for stand-by) (ON : L)
19	A17	O	Address bit for PP-RAM/SD-RAM	83	P3.9	O	Power LED lighting (for operation) (ON : L)
20	VSS25	--	GND	84	VSS33	--	GND
21	VDD25	I	2.5V	85	VDD33	I	3.3V
22	A16	O	Address bit for PP-RAM/SD-RAM	86	VSS25	--	GND
23	A8	O	Address bit for PP-RAM/SD-RAM	87	VDD25	I	2.5V
24	A7	O	Address bit for PP-RAM/SD-RAM	88	TXD0	O	Not used
25	A9	O	Address bit for PP-RAM/SD-RAM	89	RXD0	I	Not used
26	A6	O	Address bit for PP-RAM/SD-RAM	90	P3.12	O	Not used
27	A5	O	Address bit for PP-RAM/SD-RAM	91	P3.13	I/O	Data for Inter IC control bus (for Memory)
28	A10	O	Address bit for PP-RAM/SD-RAM	92	P3.15	O	Clock for Inter IC control bus (for Memory)
29	A11	O	Address bit for PP-RAM/SD-RAM	93	P5.14	I	RGB input of EXT-2 detection (Detect : L)
30	A12	O	Address bit for PP-RAM/SD-RAM	94	P5.15	I	Headphone connection detection (Connect: H)
31	VSS33	--	GND	95	TRIG_IN	I	RGB input of EXT-1 detection (Detect : L)
32	VDD33	I	3.3V	96	TRIG_OUT	O	Attenuation level select for RF splitter (ON : H)
33	A4	O	Address bit for PP-RAM/SD-RAM	97	P6.2	O	Notifies bus free state (Stop mode: H)
34	A3	O	Address bit for PP-RAM/SD-RAM	98	P6.3	O	Clock for Inter IC control bus (for Service mode)
35	A2	O	Address bit for PP-RAM/SD-RAM	99	P6.4	I/O	Data for Inter IC control bus (for Service mode)
36	A1	O	Address bit for PP-RAM/SD-RAM	100	P6.5	O	MSP reset (Reset: H)
37	A0	O	Address bit for PP-RAM/SD-RAM	101	P6.6	I/O	Data for Inter IC control bus
38	A13	O	Address bit for PP-RAM/SD-RAM	102	VSYNC	I	Vertical sync
39	A14/RAS	O	Row address strobe for SD-RAM access	103	HSYNC	I	Horizontal sync
40	A15/CAS	O	Column address strobe for SD-RAM access	104	COR/RSTOUT	O	Not used
41	VSS33	--	GND	105	BLANK	O	Ys for OSD /Teletext (blanking)
42	VDD33	I	3.3V	106	VDD33	I	3.3V
43	MEMCLK	O	Clock for SD-RAM	107	VSS33	--	GND
44	CSSDRAM	O	Chip select signal for SD-RAM device	108	XTAL1	I	System clock (6MHz)
45	CLKEN	O	Enable for memory clock	109	XTAL2	O	System clock (6MHz)
46	CSROM	O	Chip select for PP-ROM device	110	VSSA	--	GND
47	RD	O	External memory read strobe for PP-ROM	111	VDDA	I	2.5V
48	UDQM	O	Write disable for high byte	112	R	O	Red for OSD / Teletext
49	LDQM	O	Write disable for low byte	113	G	O	Green for OSD / Teletext
50	WR	O	Memory write strobe	114	B	O	Blue for OSD / Teletext
51	D15	I/O	Data bit for PP-RAM/SD-RAM	115	VSSA	--	GND
52	VSS33	--	GND	116	VDDA	I	2.5V
53	VDD33	I	3.3V	117	CVBS2	I	Composite video for WSS
54	D7	I/O	Data bit for PP-RAM/SD-RAM	118	VSSA	--	GND
55	D0	I/O	Data bit for PP-RAM/SD-RAM	119	VDDA	I	2.5V
56	D14	I/O	Data bit for PP-RAM/SD-RAM	120	CVBS1B	I	Ground for CVBS1A
57	D8	I/O	Data bit for PP-RAM/SD-RAM	121	CVBS1A	I	Composite video for Teletext decoder
58	D6	I/O	Data bit for PP-RAM/SD-RAM	122	VSSA	--	GND
59	D1	I/O	Data bit for PP-RAM/SD-RAM	123	VDDA	I	2.5V
60	VSS33	--	GND	124	P5.0	I	AFT voltage for Main tuner
61	VDD33	I	3.3V	125	P5.1	I	AFT voltage for Sub tuner
62	D13	I/O	Data bit for PP-RAM/SD-RAM	126	P5.2	I	Room brightness voltage for AI ECO SENSOR
63	D9	I/O	Data bit for PP-RAM/SD-RAM	127	P5.3	I	I-P converter power error detect (detect : L)
64	D5	I/O	Data bit for PP-RAM/SD-RAM	128	TMODE	I	Test mode

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE REAR COVER

(1) Unplug the power cord.
(2) Remove the 15 screws **[A]** as shown in Fig.2.
(3) Withdraw the REAR COVER toward you.

3.1.2 REMOVING THE AV TERMINAL BOARD

• Remove the REAR COVER.
(1) Remove the 12 screws **[B]** as shown in Fig.2.
(2) Remove the ANTENA TERMINAL pin jack from back side of the AV TERMINAL BOARD.
(3) Remove the BASS SPEAKER OUT terminal from back side of the AV TERMINAL BOARD.
(4) Pull out the AV TERMINAL BOARD rear side.

3.1.3 REMOVING THE CHASSIS

• Remove the REAR COVER.
(1) Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the CHASSIS from the front cabinet.
(2) Withdraw the CHASSIS backward.
(If necessary, take off the wire clamp, connectors etc)

3.1.4 REMOVING THE SPEAKER

• Remove the REAR COVER.
(1) Remove the 2 screws **[C]** as shown in Fig.2.
(2) Remove the SUPPORT BRACKET.
(3) Remove the 4 screws **[D]** as shown in Fig.2.
(4) Remove the speaker.

3.1.5 CHECKING THE PW BOARD

• To check the back side of the PW Board.
(1) Pull out the CHASSIS. (Refer to REMOVING THE CHASSIS).
(2) Remove the CONTROL BASE.
(3) Turn down the front side to make the chassis stand perpendicularly.
(4) Check the solder side of MAIN PWB and POWER & DEF PWB.

CAUTION:

- When erecting the CHASSIS, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE(BRAIDED ASS'Y) is connected to the CRT SOCKET PWB.

3.1.6 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

3.1.7 REMOVING THE WOOFER UNIT REAR COVER

(1) Remove the 9 screws **[H]** as shown in Fig.1.
(2) Remove the SEAKER UNIT REAR COVER.

3.1.8 REMOVING THE WOOFER SPEAKER

(1) Remove the 4 screws **[J]** as shown in Fig.1.
(2) Remove the WOOFER SPEAKER.

3.1.9 REMOVING THE DUCT

(1) Remove the 3 screws **[K]** as shown in Fig.1.
(2) Remove the DUCT.
(3) Remove the other side DUCT by same method.

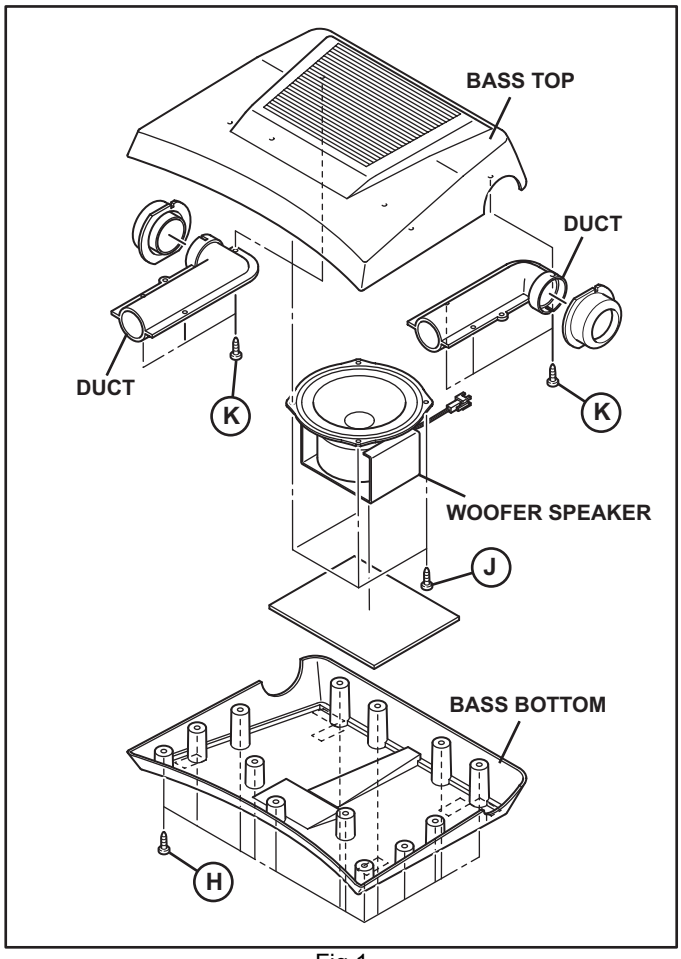


Fig.1

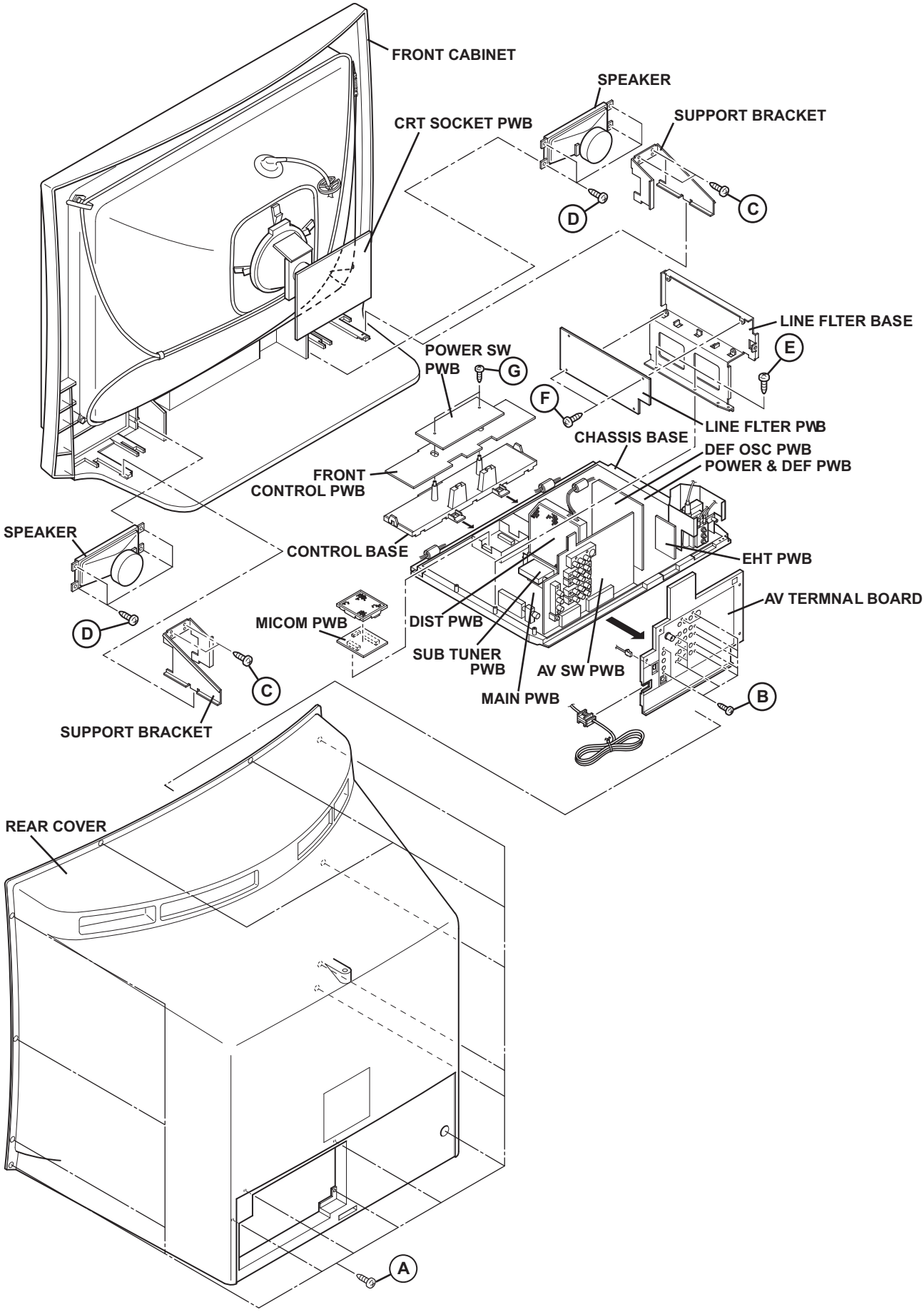

FRONT CABINET
SPEAKER
CRT SOCKET PWB
SUPPORT BRACKET
D
C
LINE FLTER BASE
E
POWER SW PWB
G
F
LINE FLTER PWB
CHASSIS BASE
DEF OSC PWB
POWER & DEF PWB
FRONT CONTROL PWB
SPEAKER
CONTROL BASE
EHT PWB
AV TERMNAL BOARD
MICOM PWB
DIST PWB
SUB TUNER PWB
AV SW PWB
MAIN PWB
B
D
C
SUPPORT BRACKET
REAR COVER
A

Fig.2

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

3. Power on

Connect the power plug to the AC outlet and switch on the power.

4. System constant check and setting

NOTE:

- It must not adjust without signal.
- Before entering the SERVICE MODE, confirm that the setting of PIP/TV/DVD switch is at the "TV" side.

(1) Press the [DISPLAY] key and the [MUTING] key of the REMOTE CONTROL UNIT simultaneously.
(2) The SERVICE MODE screen of Fig. 1 will be displayed.
(3) While the SERVICE MODE is displayed, press the [DISPLAY] key and [MUTING] key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.
(4) Check the setting values of the SYSTEM CONSTANT SETTING. If the value is different, select the setting item with the [FUNCTON ▲ / ▼] key, and set the correct value with the [FUNCTON ◀ / ▶] key.
(5) Press the [MENU] key to memorize the setting value.
(6) Press the [DISPLAY] key twice, and return to the normal screen.

5. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

6. User settings

Check the user setting items according to the given in page later.

Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

7. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary (Fig.1).

Refer to the SERVICE ADJUSTMENT for setting.

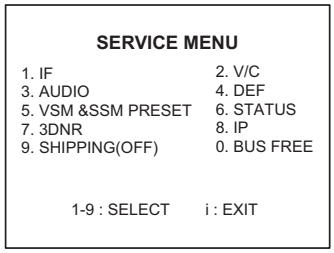


Fig.1

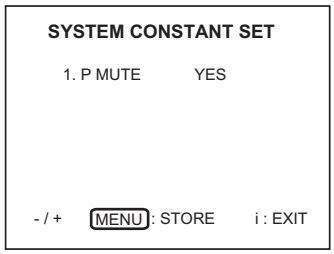


Fig.2

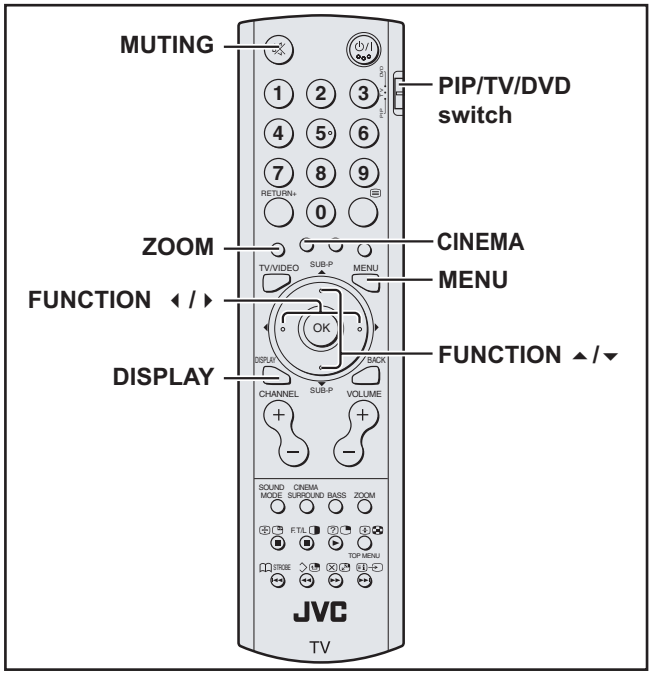


Fig.3

3.2.2 SYSTEM CONSTANT SETTING

Setting item	Setting content	Setting value		
		HV-Z29J4	HV-Z29J4/H	HV-Z29J4/S
1.P MUTE	YES / NO	YES	←	←
2.TTX SBT PMT	YES / NO	YES	←	←
3.VOL LIMIT	YES / NO	YES	←	NO
4.BB OFF MUTE	YES / NO	NO	←	YES
5.COLOUR AUTO	YES / NO	NO	←	YES
6.PIP P MUTE	YES / NO	YES	←	←

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	10
TV/VIDEO	TV

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	10
ZOOM	REGULAR
3D CINEMA SORRUND	OFF
MULTI SCREEN	9 pictures
TV/VIDEO	TV

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE

Setting item		Setting position
PICTURE MODE		BRIGHT
WHITE BALANCE		MID
AI ECO SENSOR		OFF
FEATURES		
DIGITAL VNR		AUTO (LOW)
Super DigiPure		AUTO
PULL DOWN		AUTO
Colour DigiPure		ON
COLOUR SYSTEM	MAIN	Depend on the preset channel
	SUB	AUTO
ZOOM		REGULAR
MULTI		9 pictures

(2) SOUND

Setting item	Setting position
STEREO / I•II	Stereo sound
SOUND MODE	DYNAMIC
BALANCE	Centre
HEADPHONE VOLUME	10
Dolby Virtual	OFF
3D CINEMA SURROUND	OFF
SUPER BASS	HIGH
BBE Digital	ON

(3) FEATURES

Setting item		Setting position
SLEEP TIMER		OFF
ON TIMER	PR	01
	ON TIME	00:00
CHANNEL GUARD		"OFF" for all channels
APPEARANCE		TYPE A
BLUE BACK		ON
CHILD LOCK		OFF
AUTO SHUTOFF		OFF
FAVOURITE SETTING		No memory

(4) SET UP

Setting item		Setting position
AUTO PROGRAM		TV channel automatically set
EDIT/MANUAL		PRESET CH only
LANGUAGE		ENGLISH
PICTURE TILT		Centre
VIDEO-2 SETTING		COMPONENT
VIDEO-3 SETTING		COMPONENT
AI VOLUME	ON	RF
	OFF	VIDEO
TELETEXT LANGUAGE		GROUP-1 [HV-Z29J4, HV-Z29J4/H] GROUP-4 [HV-Z29J4/S]

(5) VSM & SSM PRESET SETTING TABLE

Setting item	Variable range	Setting value									
		PICTURE MODE			WHITE BALANCE			SOUND STATUS			
		BRIGHT	STD	SOFT	COOL	MID	WARM	DYNAMIC	MUSIC	NEWS	USER
1.CONT	-16~16	16	5	-8	---	---	---	---	---	---	---
2.BRIGHT	-16~16	0	0	0	---	---	---	---	---	---	---
3.SHARP	-16~16	0	0	-2	---	---	---	---	---	---	---
4.COLOUR	-16~16	0	0	-2	---	---	---	---	---	---	---
5.TINT	-16~16	0	0	0	---	---	---	---	---	---	---
1.WDR R	-64~63	---	---	---	0	0	19	---	---	---	---
2.WDR G	-64~63	---	---	---	0	0	0	---	---	---	---
3.WDR B	-64~63	---	---	---	12	0	0	---	---	---	---
6.120Hz	-10~10	---	---	---	---	---	---	4	3	-7	0
7.500Hz	-10~10	---	---	---	---	---	---	5	2	1	0
8.1.5KHz	-10~10	---	---	---	---	---	---	-2	0	5	0
9.5KHz	-10~10	---	---	---	---	---	---	1	1	2	0
10.10KHz	-10~10	---	---	---	---	---	---	3	3	-6	0
11.EFFECT	-128~127	---	---	---	---	---	---	0	0	-61	0

3.2.4 SERVICE MODE SETING ITEMS

Setting item	Setting value	Setting item	Setting value
1. IF	1. VCO 2. ATT ON/OFF	**5. VSM & SSM PRESET**	**BRIGHT/SOFT/STD** 1.CONT. 2.BRIGHT 3.SHARP 4.COLOUR 5.TINT **COOL/WARM/MID** 1.WDR R 2.WDR G 3.WDR B **DYNAMIC/MUSIC/NEWS/USER** 6.120Hz 7.500Hz 8.1.5KHz 9.5KHz 10.10KHz 11.EFFECT
2. V/C	1.CUT OF R 2.CUT OF G 3.CUT OF B 4.DRIVE R 5.DRIVE G 6.DRIVE B 7.BRIGHT 8.CONT 9.COLOUR 10.HUE 11.TWN CNT 12.TWN COL 13.TWN TNT 14.BY GAIN 15.RY ANGLE		
3. AUDIO **[Do not adjust]**	1.ERROR LIM - 24.BBE ON120		
4. DEF	1.FREE-RUN 2.V-SHIFT 3.V-SIZE 4.H-CENT 5.H-SIZE 6.TRAPEZ 7.EW-PIN 8.COR-UP 9.COR-LOW 10.V.S-COR 11.V-LIN	**6. STATUS** **[Do not adjust]**	1.SOFT 2.TELETEXT 3.ASPECT 4.IC
		7. 3DNR **[Do not adjust]**	1.YNR LIM - 90.HGCON21
		8 .IP **[Do not adjust]**	1.ASLVGAIN - 70.BVMCORINGON
		9.SHIPPING **[Do not adjust]**	----
		0.BUS FREE **[Do not adjust]**	----

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

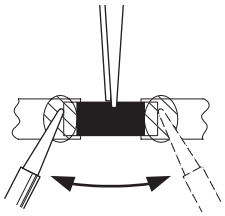
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

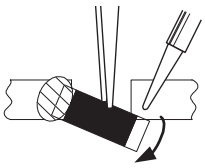
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



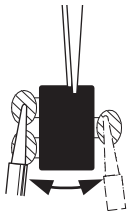
(2) Shift with the tweezers and remove the chip part.



[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.

(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

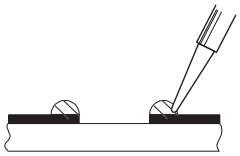


NOTE :
After removing the part, remove remaining solder from the pattern.

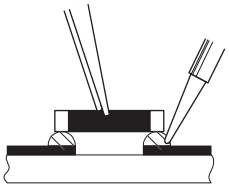
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

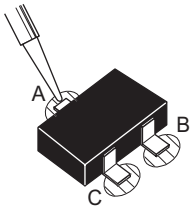


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

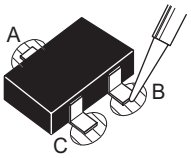


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **There are 2 ways of adjusting this TV : One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.**
(2) **The adjustment using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**
(3) Make sure that connection is correctly made AC to AC power source.
(4) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
(5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
(6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENT

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Item	Preset value
PICTURE MODE	STANDARD
CONTRAST / BRIGHT / SHARP / COLOUR / TINT	Centre
WHITE BALANCE	MID
DIGITAL VNR	AUTO (LOW)
Super DigiPure	AUTO
Colour DigiPure	ON
PULL DOWN	AUTO
BALANCE	Centre
3D CINEMA SOUND	OFF
ZOOM	REGULAR
SLEEP TIMER	OFF
BLUE BACK	OFF

4.3 MEASURING INSTRUMENT AND FIXTURES

(1) DC voltmeter (or digital voltmeter)
(2) Oscilloscope
(3) Signal generator
(Pattern generator : PAL / SECAM / NTSC)
(4) Remote control unit

4.4 ADJUSTMENT ITEMS

■ **CHECK ITEM**
- B1 VOLTAGE check
- IF VCO check

■ **HIGH VOLTAGE**
- HIGH VOLTAGE adjustment

■ **X-RAY PROTECTOR OPERATION SETTING**
- X-RAY PROTECTOR OPERATION SETTING

■ **HORIZONTAL FREQUENCY**
- HORIZONTAL FREQUENCY adjustment

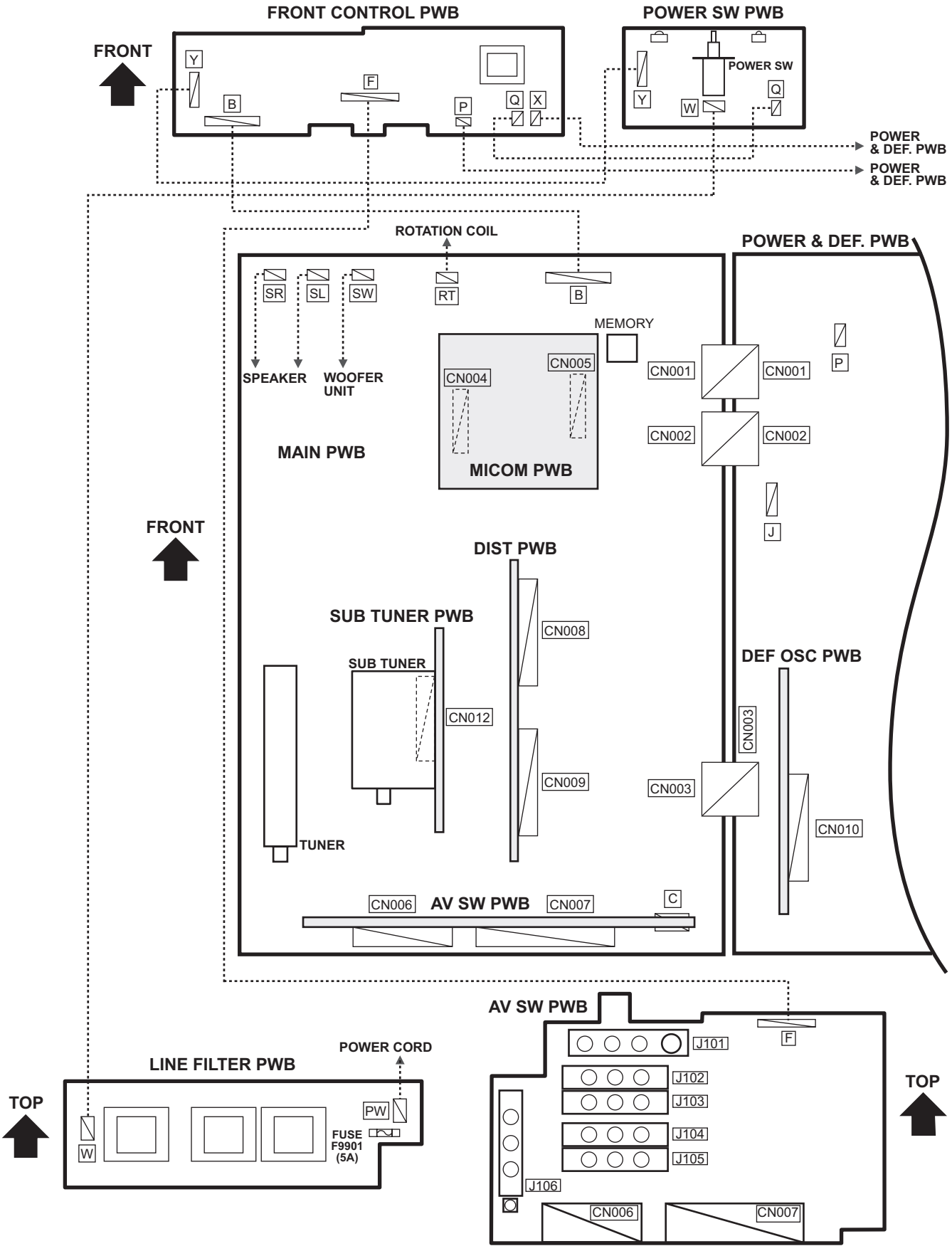
■ **FOCUS**
- FOCUS adjustment

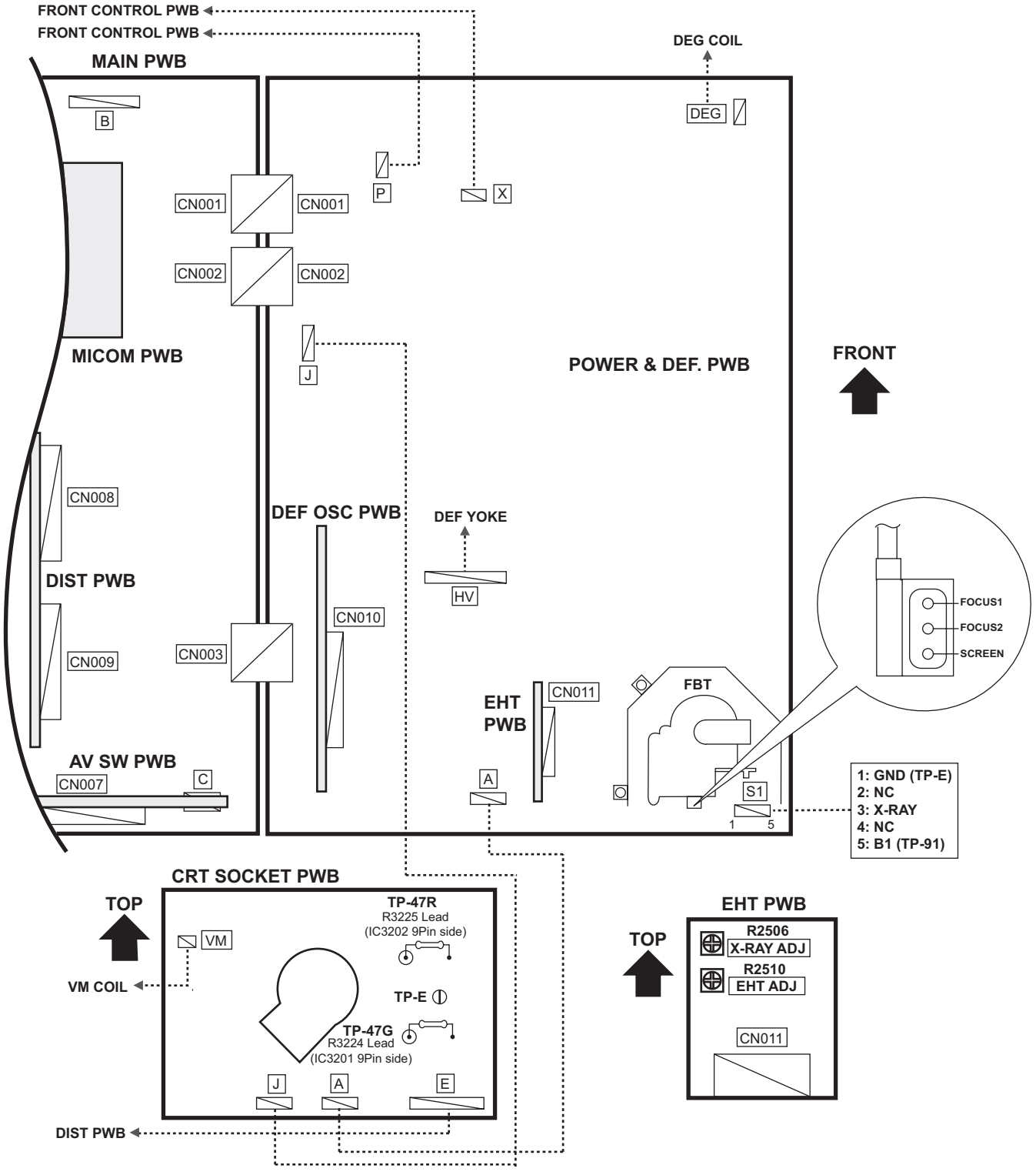
■ **DEFLECTION CIRCUIT**
- V.POSITION adjustment
- V.SIZE adjustment
- H. POSITION adjustment
- H.SIZE adjustment
- SIDE-PIN adjustment
- TRAPEZIUM adjustment
- CORNER PIN adjustment
- V. LINEARITY adjustment

■ **VIDEO CIRCUIT**
- WHITE BALANCE adjustment
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment
- SUB COLOUR adjustment
- SUB TINT adjustment
- SUB SCREEN CONTRAST adjustment
- SUB SCREEN COLOUR & TINT adjustment

■ **VSM & SSM PRESET SETTING**
- VSM & SSM PRESET setting

4.5 ADJUSTMENT LOCATIONS




FRONT CONTROL PWB
FRONT CONTROL PWB
MAIN PWB
DEG COIL
B
DEG
P
X
CN001
CN001
CN002
CN002
MICOM PWB
J
POWER & DEF. PWB
FRONT
CN008
DEF OSC PWB
DEF YOKE
HV
DIST PWB
CN010
CN003
CN009
EHT PWB
CN011
FBT
FOCUS1
FOCUS2
SCREEN
AV SW PWB
CN007
C
A
S1
1 5
1: GND (TP-E)
2: NC
3: X-RAY
4: NC
5: B1 (TP-91)
CRT SOCKET PWB
TOP
TP-47R
R3225 Lead
(IC3202 9Pin side)
VM
VM COIL
TP-E
TP-47G
R3224 Lead
(IC3201 9Pin side)
J
A
E
DIST PWB
EHT PWB
TOP
R2506
X-RAY ADJ
R2510
EHT ADJ
CN011

4.6 TOOL OF SERVICE MODE OPERATION

Operate the SERVICE MODE with the REMOTE CONTROL UNIT.

4.6.1 SERVICE MODE ITEMS

With the SERVICE MODE, various adjustment can be made, and they are broadly classified in the following items of settings.

1.IF	This mode adjusts the IF circuit.
2.V/C	This mode adjusts the VIDEO circuit
3.AUDIO	This mode adjusts the AUDIO circuit. **[Do no adjust]**
4.DEF	This mode adjusts the DEFLECTION circuit.
5.VSM & SSM PRESET	This mode sets the VSM (Video Status Memory) and SSM (Sound Status Memory) data.
6.STATUS	This mode shows the I^2C memory data software version and information. **[Do no adjust]**
7.3DNR	This mode adjusts the 3DNR (three-Dimension Noise Reduction) circuit. **[Do no adjust]**
8.IP	This mode adjusts the DIST circuit. **[Do no adjust]**
9.SHIPPING	This mode initialize the data for factory shipment. **[Do no adjust]**
0.BUS FREE	This mode stops the all I^2C bus communication. **[Do no adjust]**

4.6.2 BASIC OPERATION IN SERVICE MODE

4.6.2.1 HOW TO ENTER THE SERVICE MODE

Press the [DISPLAY] key and [MUTING] key of the REMOTE CONTROL UNIT simultaneously. Then SERVICE MODE screen will be displayed as shown figure.

NOTE:

Before entering the SERVICE MODE, confirm that the setting of PIP/TV/ DVD switch is at the "TV" side.

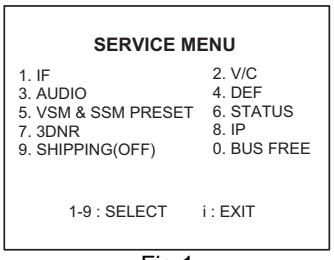


Fig.1

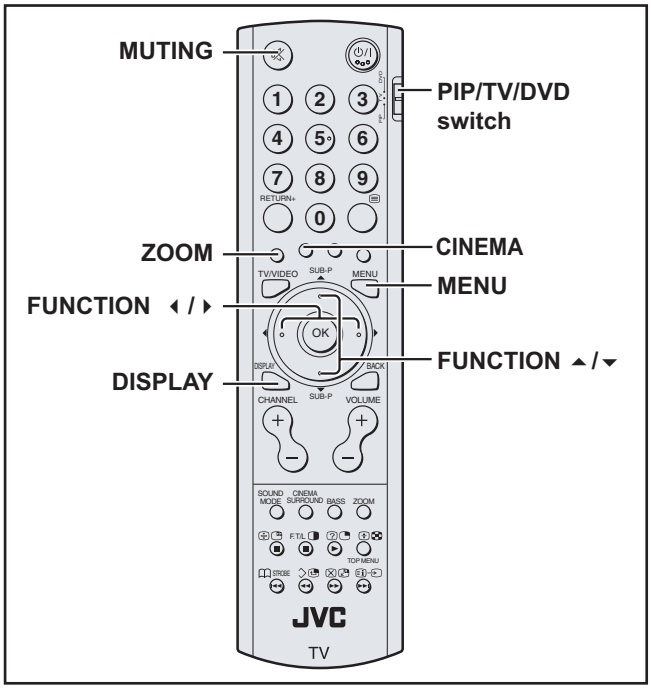


Fig.2

4.6.2.2 SELECTION OF SUB MENU SCREEN

Press one of the CHANNEL number key with the remote control unit, and select the SUB MENU SCREEN from SERVICE MODE.

4.6.2.3 SETTING METHOD

■ 1.IF

[1. VCO] : It must not adjust without signal

(1) [1] key
Select 1.IF.

(2) [1] key
Select 1.VCO(CW).
Check the arrow position between the ABOVE REF. and BELOW REF.

(3) [DISPLAY] key
Return to the SERVICE MODE main manu screen.

■ 2.V/C, 4.DEF and 5.VSM & SSM PRESET.

(1) [2], [4] and [5]key
Select one from 2.V/C, 4.DEF, 5.VSM & SSM PRESET.

(2) [FUNCTION ▲/▼] key
Select setting items.

(3) [FUNCTION ◂ / ▸] key
Set the setting values of the setting items.

(4) [MENU] key
Memorize the setting value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key. if you do, the values will not be stored in memory.)

(5) [DISPLAY] key
Return to the SERVICE MODE main manu screen.

■ 3.AUDIO, 6.STATUS, 7.3DNR, 8.IP, 9. SHIPPING(OFF) and 0. BUS FREE.

It is not requirement to adjustment.

4.6.2.4 MEMORIZE THE ADJUSTMENT DATA

When adjustment is completed, press the [MENU] key to memorize the adjustment value. If not to do it, adjustment data is not memorized to the memory IC. And if exit the adjustment mode before memorize the data, the adjustment value which you change is canceled.

4.6.2.5 RELEASE OF SERVICE MENU

After completing the setting, return to the SERVICE MENU, then again press the [DISPLAY] key.

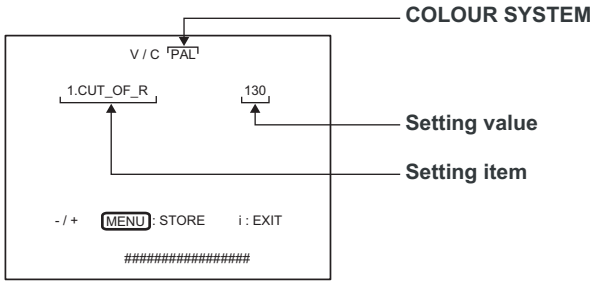
4.6.3 SERVICE MODE SETTING

1. IF

The setting for VCO is described in the IF VCO page of ADJUSTMENT PROCEDURE.

2. V/C

The setting for video data adjustment.

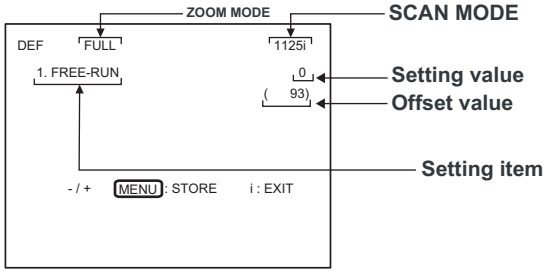


< COLOUR SYSTEM >

PAL : PAL
SECAM : SECAM
N3 : NTSC3.58
N4 : NTSC4.43

4. DEF

The setting for defrection data adjustment.



< ZOOM MODE >

FULL : This means that the screen mode is REGULAR.

NOTE:

Display only FULL. Adjustment in other aspect mode are not required in SERVICE MODE.

< SCAN MODE >

SINGLE SCREEN mode
900i : 625i, 625p
1125i : 525i, 525p, 1125i (fv: 60Hz)
1350i : 1125i (fv: 50Hz)
602p : 625i (Text screen)

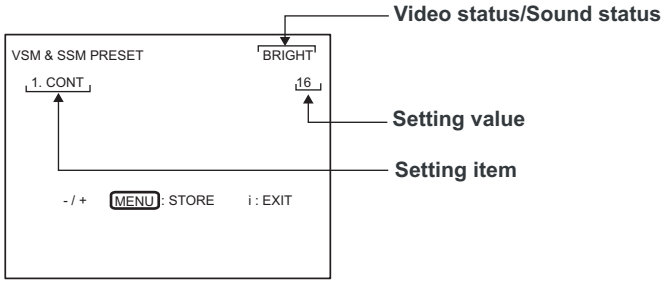
MULTI SCREEN mode
900i : 9 (index) screen, 5 screen(main:625i,625p)
1125i : 5 (index) screen(main:525i,525p), 2 (twin) screen (others)
1350i : 2 screen(main&sub:625i,625p)

< OFFSET VALUE >

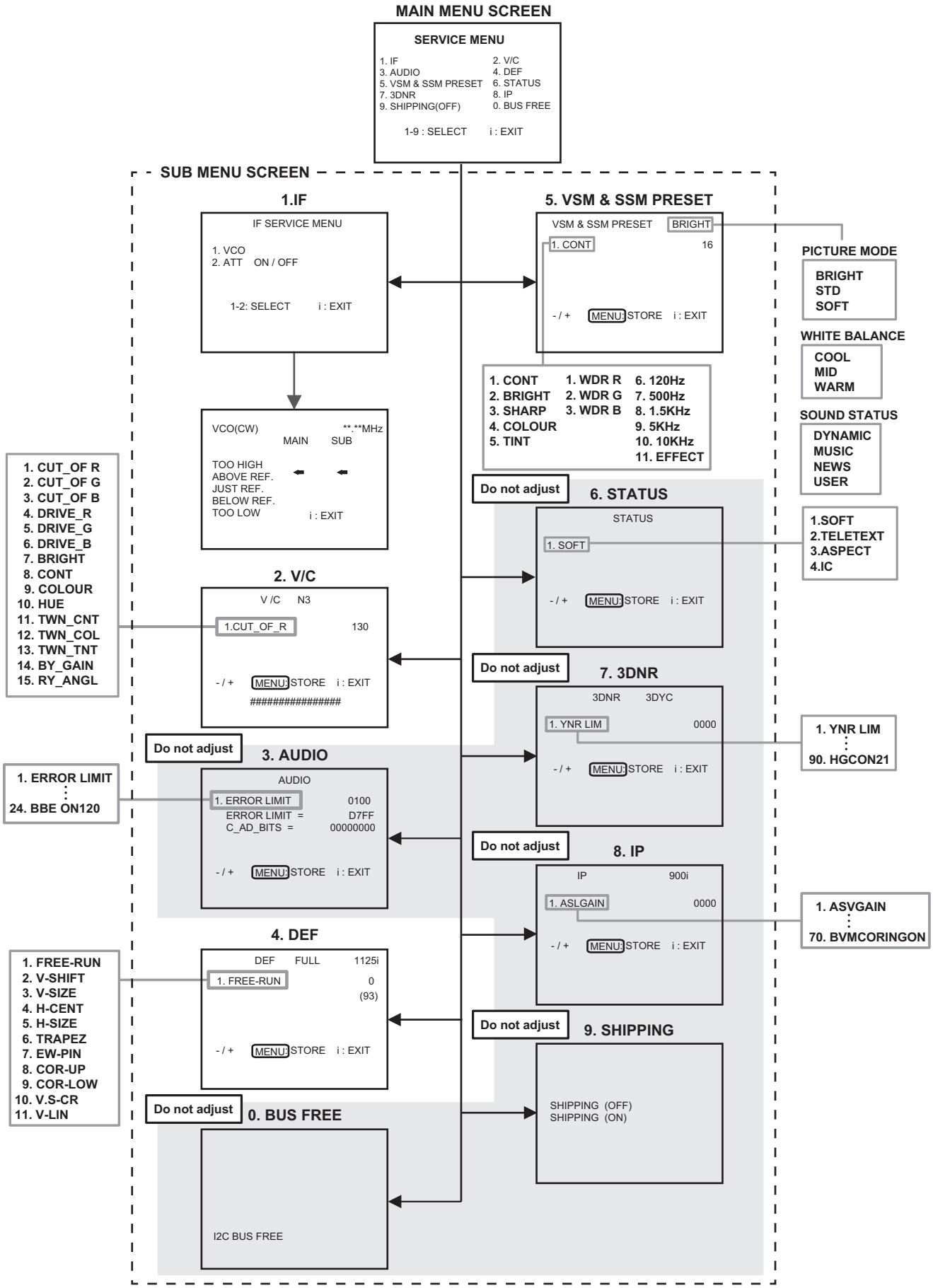
The value adjusted by 900i is displayed.

5. VSM & SSM PRESET

The setting for video status memory data and sound status memory data adjustment.



4.7 SERVICE MODE FLOW CHART



4.8 INITIAL SETTING VALUE OF SERVICE MODE

(1) Adjustment of the SERVICE MODE is made on the basis of the initial setting values. However, the new setting values which displays on the screen in its optimum condition may differ from the initial setting value.
(2) Do not change the initial setting values of the items not listed in "ADJUSTMENT PROCEDURE".
(3) "---" is impossible to adjust or not requirement to adjustment.

4.8.1 [2. V/C]

Setting item	Variable range	Setting value							
		RF				External (Composite / S-video)			
		PAL	SECAM	NTSC3.58	NTSC4.43	PAL	SECAM	NTSC3.58	NTSC4.43
1.CUT OF R	000~255	140	140	140	140	140	140	140	140
2.CUT OF G	000~255	140	140	140	140	140	140	140	140
3.CUT OF B	000~255	140	140	140	140	140	140	140	140
4.DRIVE R	000~255	064	064	064	064	064	064	064	064
5.DRIVE G	000~255	064	064	064	064	064	064	064	064
6.DRIVE B	000~255	064	064	064	064	064	064	064	064
7.BRIGHT	000~255	130	130	130	130	130	130	130	130
8.CONT	000~127	070	070	070	070	070	070	070	070
9.COLOUR	000~127	064	055	064	000	000	000	000	000
10.HUE	000~127	000	000	063	000	000	000	000	000
11.TWN CNT	000~015	009	009	009	009	009	009	009	009
12.TWN COL	000~015	009	009	009	000	000	000	000	000
13.TWN TNT	000~063	000	000	035	000	000	000	001	000
14.BY GAIN	000~063	043	043	043	000	043	043	043	000
15.RY ANGLE	000~015	005	005	006	000	005	005	006	000

Setting item	Variable range	Setting value					
		External (Component)					
		625i	525i	625p	525p	1125i / 50Hz	1125i / 60Hz
1.CUT OF R	000~255	140	140	000	000	000	000
2.CUT OF G	000~255	140	140	000	000	000	000
3.CUT OF B	000~255	140	140	000	000	000	000
4.DRIVE R	000~255	064	064	000	000	000	000
5.DRIVE G	000~255	064	064	000	000	000	000
6.DRIVE B	000~255	064	064	000	000	000	000
7.BRIGHT	000~255	130	130	000	000	-03	-03
8.CONT	000~127	070	070	000	000	000	000
9.COLOUR	-61~066	-10	-10	-10	-10	000	000
10.HUE	000~127	065	065	000	001	000	002
11.TWN CNT	000~015	000	000	---	---	000	000
12.TWN COL	-02~013	000	000	000	000	000	000
13.TWN TNT	000~063	000	000	000	001	000	000
14.BY GAIN	000~063	000	000	000	000	000	000
15.RY ANGLE	000~015	000	000	000	000	000	000

4.8.2 [3. AUDIO]

Setting item	Variable range	Setting value
1.ERROR LIM	0000~FFF0	0100
2.A2 ID THR	0000~00FF	0014
3.Q-PEAK	-----	-----
4.SOUND LEV	0000~FFF0	FFFF

Setting item	Variable range	Setting value							
		3D CINEMA SURROUND				SUPER BASS			
		LOW	HIGH	MONO	OFF	LOW	MID	HIGH	OFF
5.VIRT_MODE	----	3D PANORAMA	3D PANORAMA	---	---	---	---	---	---
6.VIRT_SPAT	0000~007F	000F	003A	---	---	---	---	---	---
7.VIRTUAL EFF	0000~007F	000C	0034	---	---	---	---	---	---
8.SPATIAL EF	0000~007F	---	---	003F	---	---	---	---	---
9.MB_STR	0000~007F	---	---	0000	0000	0025	0000	0035	0030
10.MB_HMC	0000~007F	---	---	0000	0000	0000	0000	0000	0000
11.MB_HP	0002~001E	---	---	0000	0000	0009	0000	0009	0009
12.MB_LP	0005~001E	---	---	0000	0000	000A	0000	000A	000A
13.MB_LIMIT	0000~00FF	---	---	0000	0000	00E5	0000	0000	00F6
14.SUBW_LEV	0000~00FF	---	---	0000	0000	0000	0000	0000	0000
15.SUBW_FREQ	0005~0028	---	---	0000	0000	000A	0000	000A	000A
16.SUBW_CHAR	0000~0003	---	---	0000	0000	0001	0000	0001	0001
17.SUBW_HP	0000~0002	---	---	0000	0000	0002	0000	0002	0002
18.VOL_CLP_M	0000~0003	---	---	0003	0003	0003	0003	0003	0003

Setting item	Variable range	Setting value
19.LIPSYNC	ON / OFF	OFF
20.DELAY TIME	32ms~128ms	32ms
21.BBE LEVEL	0000~00FF	00FC
22.BBE ON5K	0000~00FF	00FD
23.BBE ON10K	0000~00FF	00FA
24.BBE ON120	0000~00FF	00FA

4.8.3 [4. DEF]

Setting item	Variable range	Setting value					
		ASPECT (ZOOM)					
		REGULAR				16:9	
		900i	1125i	1350i	602p	1125i	1350i
1.FREE-RUN	-55~200	90	0	0	0	0	0
2.V-SHIFT	-18~45	22	0	0	0	0	0
3.V-SIZE	-40~87	57	0	0	-3	-28	-28
4.H-CENT	-18~237	50	0	0	0	0	0
5.H-SIZE	-31~32	35	0	0	0	0	0
6.TRAPEZ	-30~33	32	0	0	0	0	0
7.EW-PIN	-21~42	20	0	0	0	0	0
8.COR-UP	-9~6	7	0	0	0	0	0
9.COR-LOW	-9~6	7	0	0	0	0	0
10.V.S-CR	-24~39	50	0	0	0	0	0
11.V-LIN	-40~23	41	1	3	0	0	0

4.8.4 [5. VSM & SSM PRESET]

Setting item	Variable range	Setting value									
		PICTURE MODE			WHITE BALANCE			SOUND STATUS			
		BRIGHT	STD	SOFT	COOL	MID	WARM	DYNAMIC	MUSIC	NEWS	USER
1.CONT	-16~16	16	5	-8	---	---	---	---	---	---	---
2.BRIGHT	-16~16	0	0	0	---	---	---	---	---	---	---
3.SHARP	-16~16	0	0	-2	---	---	---	---	---	---	---
4.COLOUR	-16~16	0	0	-2	---	---	---	---	---	---	---
5.TINT	-16~16	0	0	0	---	---	---	---	---	---	---
1.WDR R	-64~63	---	---	---	0	0	19	---	---	---	---
2.WDR G	-64~63	---	---	---	0	0	0	---	---	---	---
3.WDR B	-64~63	---	---	---	12	0	0	---	---	---	---
6.120Hz	-10~10	---	---	---	---	---	---	4	3	-7	0
7.500Hz	-10~10	---	---	---	---	---	---	5	2	1	0
8.1.5KHz	-10~10	---	---	---	---	---	---	-2	0	5	0
9.5KHz	-10~10	---	---	---	---	---	---	1	1	2	0
10.10KHz	-10~10	---	---	---	---	---	---	3	3	-6	0
11.EFFECT	-128~127	---	---	---	---	---	---	0	0	-61	0

4.8.5 [7.3DNR] (*All the value are fixed values.)

Setting item	Variable range	Setting value									
		RF				External (Composite / S-VIDEO)				External (Component)	
		PAL	SECAM	NTSC3.58	NTSC4.43	PAL	SECAM	NTSC3.58	NTSC4.43	625i	525i
1.YNR LIM	0000~0007	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
2.YNR K	0000~0003	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
3.YNR GAIN	0000~0007	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
4.CNR LIM	0000~0007	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
5.CNR K	0000~0003	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
6.CNR GAIN	0000~0007	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
7.LTI GAIN	0000~0003	0000	0001	0000	0000	0000	0001	0000	0000	0000	0000
8.LTI SLICE	0000~0003	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
9.CTI GAIN	0000~0003	0002	0003	0003	0002	0002	0003	0003	0002	0002	0002
10.CTI SLICE	0000~0003	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
11.BRIGHTNES	0000~000F	0003	0003	0003	0003	0001	0001	0001	0001	0001	0001
12.CONTRAST	0000~00FF	0010	0010	0010	0010	0010	0010	0010	0010	0014	0014
13.AC M SLP	0000~0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
14.AC S SLP	0000~0003	0003	0003	0001	0003	0003	0003	0001	0003	0003	0003
15.AY M SLP	0000~0003	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
16.AY S SLP	0000~0003	0002	0002	0001	0002	0002	0002	0001	0002	0002	0002
17.AC M E SE	0000~0003	0002	0002	0003	0002	0002	0002	0003	0002	0002	0002
18.AC M F SE	0000~0003	0002	0002	0003	0002	0002	0002	0003	0002	0002	0002
19.AC S E SE	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
20.AC S F SE	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
21.AY M E SE	0000~0003	0002	0002	0003	0002	0002	0002	0003	0002	0002	0002
22.AY M F SE	0000~0003	0002	0002	0003	0002	0002	0002	0003	0002	0002	0002
23.AY S E SE	0000~0003	0000	0000	0001	0000	0000	0000	0001	0000	0000	0000
24.AY S F SE	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
25.BC M SLP	0000~0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
26.BC S SLP	0000~0003	0003	0003	0002	0003	0003	0003	0002	0003	0003	0003
27.BY M SLP	0000~0003	0000	0000	0003	0000	0000	0000	0003	0000	0000	0000
28.BY S SLP	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
29.BC M E SE	0000~0003	0002	0002	0003	0002	0002	0002	0003	0002	0002	0002
30.BC M F SE	0000~0003	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
31.BC S E SE	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
32.BC S F SE	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
33.BY M E SE	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
34.BY M F SE	0000~0003	0000	0000	0003	0000	0000	0000	0003	0000	0000	0000
35.BY S E SE	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
36.BY S F SE	0000~0003	0000	0000	0002	0000	0000	0000	0002	0000	0000	0000
37.BC M UP	0000~0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
38.C E CMP	0000~0007	0004	0004	0005	0004	0004	0004	0005	0004	0004	0004
39.C S CMP	0000~000F	0008	0008	0001	0008	0008	0008	0001	0008	0008	0008
40.F1HER	0000~0003	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
41.F1VER	0000~0003	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
42.MREF	0000~000F	0005	0005	0002	0005	0005	0005	0002	0005	0005	0005
43.CDEYE	0000~0003	0001	0001	0002	0001	0001	0001	0002	0001	0001	0001
44.YDEYE	0000~0003	0001	0001	0000	0001	0001	0001	0000	0001	0001	0001
45.MDS	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
46.MDMPL	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
47.MDMBL	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
48.3D STD	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

Setting item	Variable range	Setting value									
		RF				External (Composite / S-VIDEO)				External (Component)	
		PAL	SECAM	NTSC3.58	NTSC4.43	PAL	SECAM	NTSC3.58	NTSC4.43	625i	525i
49.2ASS	0000~0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
50.2ASEL	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
51.2ALEV	0000~0007	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
52.2ASSCM	0000~0003	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
53.CROSS	0000~0001	0000	0000	0001	0000	0000	0000	0001	0000	0000	0000
54.CHLPF	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
55.YDCLOFF	0000~0001	0001	0001	0000	0001	0001	0001	0000	0001	0001	0001
56.YDNRW	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
57.CDNRW	0000~0001	0000	0000	0001	0000	0000	0000	0001	0000	0000	0000
58.YDCMP	0000~000F	0008	0008	0000	0008	0008	0008	0000	0008	0008	0008
59.HDAMP1	0000~0007	0003	0003	0003	0003	0000	0000	0000	0000	0000	0000
60.HDGAIN1	0000~001F	0008	0008	0008	0008	000D	000D	000D	000D	0010	0010
61.HDAMP2	0000~0007	0004	0004	0004	0004	0003	0003	0003	0003	0003	0003
62.HDGAIN2	0000~001F	0003	0003	0003	0003	0007	0007	0007	0007	001C	001C
63.HDAMP3	0000~0007	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
64.HDGAIN3	0000~001F	0004	0004	0004	0004	0003	0003	0003	0003	000C	000C
65.SHCTRL	0000~003F	003F	003F	003F	003F	003F	003F	003F	003F	003F	003F
66.MUTE	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
67.CMUTE	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
68.(Not used)	---	---	---	---	---	---	---	---	---	---	---
69.(Not used)	---	---	---	---	---	---	---	---	---	---	---
70.(Not used)	---	---	---	---	---	---	---	---	---	---	---
71.BCFOFF	0000~0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
72.CGAIN	0000~0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
73.EN NOISEH S	0000~0007	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
74.EN NOISEH W	0000~0007	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
75.EN NOISEV S	0000~0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
76.EN NOISEV W	0000~0003	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
77.HDPH	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
78.VDPH	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
79.VPHS	0000~0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
80.EN PIXH S	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
81.EN PIXH W	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
82.EN PIXV S	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
83.EN PIXV A	0000~0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
84.HBLK S	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
85.HBLK W	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
86.FHST S	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
87.FVST S	0000~000F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
88.EXTCLP	0000~000F	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
89.HGCON12	0000~000F	0004	0004	0004	0004	0003	0003	0003	0003	000C	000C
90.HGCON21	0000~000F	000A	000A	000A	000A	000E	000E	000E	000E	000E	000E

4.8.6 [8. IP] (All the value are fixed vaiues.)

Setting item	Variable range	Setting value						
		Single screen / PIP (Main screen)						
		RF		External (Composite / S)		External (Component)		
		625i	525i	625i	525i	625i / 525i	625p / 525p	1125i (only Single screen)
1. ASLGAIN	0000~0063	0024	0024	0024	0024	0024	0014	0027
2. ASLVHGAIN	0000~0063	0008	0008	0008	0008	0008	0000	0019
3. ASLHGAIN	0000~0063	0021	0030	0038	0038	0038	0026	0021
4. ASLVPEAKFREQ	0000~0003	0001	0001	0001	0001	0001	0001	0001
5. ASLHPEAKFREQ	0000~0007	0001	0001	0001	0001	0001	0001	0001
6. ASLEDGECTRL	0000~0063	0037	0025	0037	0030	0025	0018	0015
7. ASLEDGECTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
8. ASLCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
9. ASLENHACEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
10. ASVPEAKFREQ	0000~0003	0002	0002	0002	0002	0002	0002	0002
11. ASHPEAKFREQ	0000~0007	0004	0004	0004	0004	0004	0004	0004
12. ASYLCONTROL	0000~0063	0032	0028	0004	0005	0004	0004	0008
13. ASYLCTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
14. ASYHCONTROL	0000~0063	0063	0063	0031	0063	0063	0063	0063
15. ASYHCTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
16. ASCCONTROL	0000~0063	0007	0007	0016	0016	0016	0023	0032
17. ASENHANCEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
18. ASPMBALANCE	0000~0063	0001	0005	0006	0006	0006	0006	0018
19. ASPMBLNCEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
20. ASLIMIT	0000~0063	0051	0051	0051	0051	0051	0032	0016
21. ASLIMITON	0000~0001	0001	0001	0001	0001	0001	0001	0001
22. ASCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
23. APBGAIN	0000~0063	0026	0026	0026	0026	0026	0026	0026
24. APBPEAKFREQ	0000~0007	0002	0002	0002	0002	0002	0002	0003
25. APBCORING	0000~0063	0009	0009	0009	0009	0009	0009	0009
26. APBCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
27. APRGAIN	0000~0063	0026	0026	0026	0026	0026	0026	0026
28. APRPEAKFREQ	0000~0007	0002	0002	0002	0002	0002	0002	0003
29. APRCORING	0000~0063	0009	0009	0009	0009	0009	0009	0009
30. APRCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
31. AVMPEAKFREQ	0000~0007	0002	0003	0003	0003	0003	0003	0002
32. AVMLIMITON	0000~0001	0001	0001	0001	0001	0001	0001	0001
33. AVMHCONTROL	0000~0063	0032	0032	0032	0032	0032	0026	0010
34. AVMHCTRLON	0000~0001	0000	0000	0000	0000	0000	0001	0000
35. AVMCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001

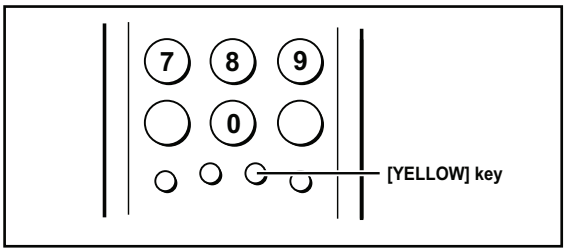
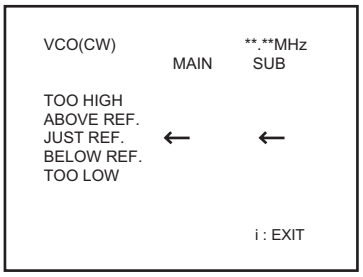
Setting item	Variable range	Setting value					
		Text 2 screen / Multi 2 screen / Multi 5 screen (Main screen)					9 screen
		RF	External (Composite / S)		External (Component)		
		625i / 525i	625i	525i	625i / 525i	625p / 525p	
1. ASLGAIN	0000~0063	0024	0024	0024	0024	0014	0024
2. ASLVHGAIN	0000~0063	0008	0008	0008	0008	0000	0008
3. ASLHGAIN	0000~0063	0021	0026	0026	0026	0018	0026
4. ASLVPEAKFREQ	0000~0003	0001	0001	0001	0001	0001	0001
5. ASLHPEAKFREQ	0000~0007	0001	0001	0001	0001	0001	0001
6. ASLEDGECTRL	0000~0063	0037	0037	0037	0037	0018	0037
7. ASLEDGECTRLON	0000~0001	0001	0001	0001	0001	0001	0001
8. ASLCORINGON	0000~0001	0001	0001	0001	0001	0001	0001
9. ASLENHACEON	0000~0001	0001	0001	0001	0001	0001	0001
10. ASVPEAKFREQ	0000~0003	0002	0002	0002	0002	0003	0002
11. ASHPEAKFREQ	0000~0007	0004	0004	0004	0004	0004	0004
12. ASYLCONTROL	0000~0063	0005	0005	0005	0005	0005	0005
13. ASYLCTRLON	0000~0001	0001	0001	0001	0001	0001	0001
14. ASYHCONTROL	0000~0063	0063	0063	0063	0063	0063	0063
15. ASYHCTRLON	0000~0001	0001	0001	0001	0001	0001	0001
16. ASCCONTROL	0000~0063	0007	0016	0016	0007	0023	0007
17. ASENHANCEON	0000~0001	0001	0001	0001	0001	0001	0001
18. ASPMBALANCE	0000~0063	0001	0006	0006	0006	0006	0010
19. ASPMBLNCEON	0000~0001	0001	0001	0001	0001	0001	0001
20. ASLIMIT	0000~0063	0051	0051	0051	0051	0032	0051
21. ASLIMITON	0000~0001	0001	0001	0001	0001	0001	0001
22. ASCORINGON	0000~0001	0001	0001	0001	0001	0001	0001
23. APBGAIN	0000~0063	0026	0026	0026	0026	0026	0026
24. APBPEAKFREQ	0000~0007	0002	0002	0002	0002	0002	0002
25. APBCORING	0000~0063	0009	0009	0009	0009	0009	0009
26. APBCORINGON	0000~0001	0001	0001	0001	0001	0001	0001
27. APRGAIN	0000~0063	0026	0026	0026	0026	0026	0026
28. APRPEAKFREQ	0000~0007	0002	0002	0002	0002	0002	0002
29. APRCORING	0000~0063	0009	0009	0009	0009	0009	0009
30. APRCORINGON	0000~0001	0001	0001	0001	0001	0001	0001
31. AVMPEAKFREQ	0000~0007	0003	0003	0003	0003	0003	0003
32. AVMLIMITON	0000~0001	0001	0001	0001	0001	0001	0001
33. AVMHCONTROL	0000~0063	0032	0032	0032	0032	0032	0032
34. AVMHCTRLON	0000~0001	0000	0000	0000	0000	0001	0000
35. AVMCORINGON	0000~0001	0001	0001	0001	0001	0001	0001

Setting item	Variable range	Setting value						
		Single screen	PIP / Twin screen : Main screen input=625i / 525i					
			Sub screen					
			RF		External (Composite / S)		External (Component)	
			625i	525i	625i	525i	625i	525i
36. BSLVGAIN	0000~0063	0024	0024	0024	0024	0024	0024	0024
37. BSLVHGAIN	0000~0063	0008	0008	0008	0008	0008	0008	0008
38. BSLHGAIN	0000~0063	0021	0021	0021	0026	0026	0026	0026
39. BSLVPEAKFREQ	0000~0003	0001	0001	0001	0001	0001	0001	0001
40. BSLHPEAKFREQ	0000~0007	0001	0001	0001	0001	0001	0001	0001
41. BSLEDGECTRL	0000~0063	0037	0037	0037	0037	0037	0037	0037
42. BSLEDGECTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
43. BSLCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
44. BSLENHACEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
45. BSVPEAKFREQ	0000~0003	0002	0002	0002	0002	0002	0002	0002
46. BSHPEAKFREQ	0000~0007	0004	0004	0004	0004	0004	0004	0004
47. BSYLCONTROL	0000~0063	0032	0032	0032	0035	0035	0035	0035
48. BSYLCTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
49. BSYHCONTROL	0000~0063	0063	0063	0063	0063	0063	0063	0063
50. BSYHCTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
51. BSCCONTROL	0000~0063	0007	0007	0007	0016	0016	0007	0007
52. BSENHANCEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
53. BSPMBALANCE	0000~0063	0001	0001	0001	0006	0006	0006	0006
54. BSPMBLNCEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
55. BSLIMIT	0000~0063	0051	0051	0051	0051	0051	0051	0051
56. BSLIMITON	0000~0001	0001	0001	0001	0001	0001	0001	0001
57. BSCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
58. BPBGAIN	0000~0063	0048	0026	0026	0026	0026	0026	0026
59. BPBPEAKFREQ	0000~0007	0007	0002	0002	0002	0002	0002	0002
60. BPBCORING	0000~0063	0008	0009	0009	0009	0009	0009	0009
61. BPBCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
62. BPRGAIN	0000~0063	0048	0026	0026	0026	0026	0026	0026
63. BPRPEAKFREQ	0000~0007	0007	0002	0002	0002	0002	0002	0002
64. BPRCORING	0000~0063	0008	0009	0009	0009	0009	0009	0009
65. BPRCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
66. BVMPEAKFREQ	0000~0007	0003	0003	0003	0003	0003	0003	0003
67. BVMLIMITON	0000~0001	0001	0001	0001	0001	0001	0001	0001
68. BVMHCONTROL	0000~0063	0032	0032	0032	0032	0032	0032	0032
69. BVMHCTRLON	0000~0001	0000	0000	0000	0000	0000	0000	0000
70. BVMCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001

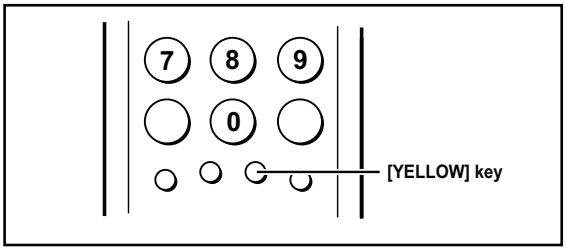
Setting item	Variable range	Setting value						
		PIP / Twin screen : Main screen input=625p / 525p						5 screen / 9screen
		Sub screen						
		RF		External (Composite / S)		External (Component)		
		625i	525i	625i	525i	625i	525i	
36. BSLVGAIN	0000~0063	0024	0024	0024	0024	0024	0024	0024
37. BSLVHGAIN	0000~0063	0008	0008	0008	0008	0008	0008	0008
38. BSLHGAIN	0000~0063	0021	0021	0026	0026	0026	0026	0026
39. BSLVPEAKFREQ	0000~0003	0001	0001	0001	0001	0001	0001	0001
40. BSLHPEAKFREQ	0000~0007	0001	0001	0001	0001	0001	0001	0001
41. BSLEDGECTRL	0000~0063	0037	0037	0037	0037	0037	0037	0037
42. BSLEDGECTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
43. BSLCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
44. BSLENHACEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
45. BSVPEAKFREQ	0000~0003	0002	0002	0002	0002	0002	0002	0002
46. BSHPEAKFREQ	0000~0007	0004	0004	0004	0004	0004	0004	0004
47. BSYLCONTROL	0000~0063	0032	0032	0035	0035	0035	0035	0032
48. BSYLCTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
49. BSYHCONTROL	0000~0063	0063	0063	0063	0063	0063	0063	0063
50. BSYHCTRLON	0000~0001	0001	0001	0001	0001	0001	0001	0001
51. BSCCONTROL	0000~0063	0007	0007	0016	0016	0007	0007	0007
52. BSENHANCEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
53. BSPMBALANCE	0000~0063	0001	0001	0006	0006	0006	0006	0010
54. BSPMBLNCEON	0000~0001	0001	0001	0001	0001	0001	0001	0001
55. BSLIMIT	0000~0063	0051	0051	0051	0051	0051	0051	0051
56. BSLIMITON	0000~0001	0001	0001	0001	0001	0001	0001	0001
57. BSCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
58. BPBGAIN	0000~0063	0026	0026	0026	0026	0026	0026	0026
59. BPBPEAKFREQ	0000~0007	0002	0002	0002	0002	0002	0002	0002
60. BPBCORING	0000~0063	0009	0009	0009	0009	0009	0009	0009
61. BPBCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
62. BPRGAIN	0000~0063	0026	0026	0026	0026	0026	0026	0026
63. BPRPEAKFREQ	0000~0007	0002	0002	0002	0002	0002	0002	0002
64. BPRCORING	0000~0063	0009	0009	0009	0009	0009	0009	0009
65. BPRCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001
66. BVMPEAKFREQ	0000~0007	0003	0003	0003	0003	0003	0003	0003
67. BVMLIMITON	0000~0001	0001	0001	0001	0001	0001	0001	0001
68. BVMHCONTROL	0000~0063	0032	0032	0032	0032	0032	0032	0032
69. BVMHCTRLON	0000~0001	0000	0000	0000	0000	0000	0000	0000
70. BVMCORINGON	0000~0001	0001	0001	0001	0001	0001	0001	0001

4.9 ADJUSTMENT PROCEDURE

4.9.1 CHECK ITEM

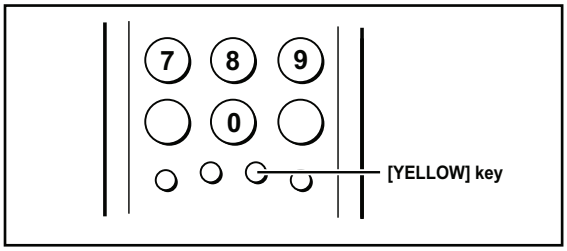
Item	Measuring instrument	Test point	Adjustment part	Description
B1 VOLTAGE	Signal generator DC voltmeter Remote control unit	S1 Connector 1-pin:TP-E 5-pin:TP-91 [POWER&DEF PWB]	[2. V/C] 1. CUT_OF_R SCREEN VR [In FBT]	(1) Receive the black and white signal (color off). (2) Connect the DC voltmeter to the TP-E(GND) and TP-91(B1) of S1 connector. (3) Select 2. V/C from the SERVICE MODE. (4) Select < 1. CUT_OF_R >. (5) Show one horizontal line with the [YELLOW] key. (6) Turn the SCREEN VR counterclockwise to display whole black screen. (7) Make sure that the voltage is DC145V±2.0V. (8) Readjust the SCREEN VR to appear the horizontal line faitly. (9) Cancel the horizontal line by pressing the [YELLOW] key.
				
IF VCO	Remote control unit		[1. IF] 1. VCO	• It must not adjust without inputting the RF signal. (1) Receive the any broadcast. (2) Select 1. IF from the SERVICE MODE. (3) Select < 1. VCO >. (4) Check the ←(Arrow) position of [MAIN] between the ABOVE REF. and BELLOW REF. (5) Select [SUB] with the [OK] key. (6) Check the ←(Arrow) position of [SUB] between the ABOVE REF. and BELLOW REF.
				

4.9.2 HIGH VOLTAGE

Item	Measuring instrument	Test point	Adjustment part	Description
HIGH VOLTAGE	Signal generator HV voltmeter Remote control unit	CRT anode	[2. V/C] 1. CUT_OF_R EHT ADJ VR (R2510) [EHT PWB] SCREEN VR [In FBT]	(1) Receive the black and white signal (color off). (2) Connect the HV voltmeter to CRT anode and chassis GND. (3) Select 2. V/C from the SERVICE MODE. (4) Select < 1. CUT_OF_R >. (5) Show one horizontal line with the [YELLOW] key. (6) Turn the SCREEN VR counterclockwise to display whole black screen. (7) Adjust EHT ADJ VR so that the voltage become 31kV±0.2V. (8) Readjust the SCREEN VR to appear the horizontal line faitly. (9) Cancel the horizontal line by pressing the [YELLOW] key.
				

4.9.3 X-RAY PROTECTOR OPERATION SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
X-RAY PROTECTOR OPERATION SETTING	Signal generator DC voltmeter Remote control unit	S1 Connector 1-pin:TP-E 3-pin:X-RAY [POWER&DEF PWB]	[2. V/C] 1. CUT_OF_R X-RAY ADJ VR (R2506) [EHT PWB]	(1) Receive the black and white signal (color off). (2) Connect the DC voltmeter to the TP-E(GND) and X-RAY of S1 connector. (3) Select 2. V/C from the SERVICE MODE. (4) Select < 1. CUT_OF_R >. (5) Show one horizontal line with the [YELLOW] key. (6) Adjust X-RAY ADJ VR so that the voltage become 4.7V±0.1V. (7) Cancel the horizontal line by pressing the [YELLOW] key.

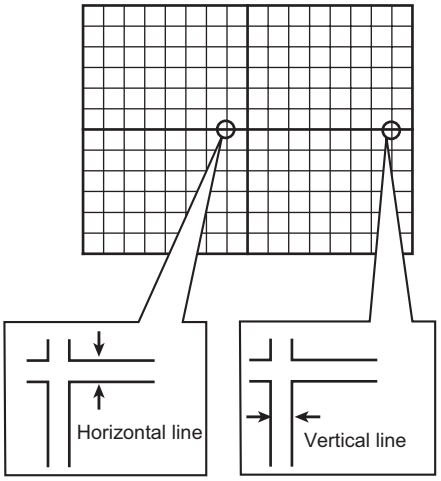


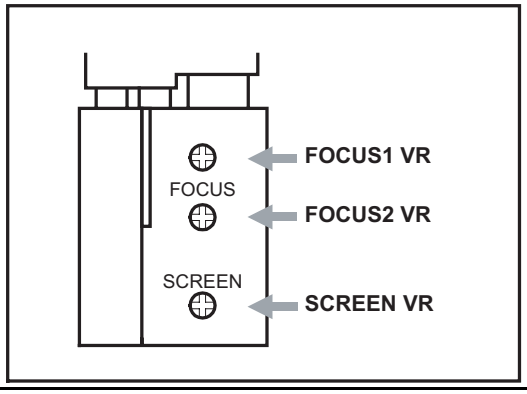
4.9.4 HORIZONTAL FREQUENCY

Item	Measuring instrument	Test point	Adjustment part	Description
HORIZONTAL FREQUENCY	Remote control unit		[4. DEF] 1. FREE-RUN	(1) Receive the any broadcast. (2) Select 4. DEF from the SERVICE MODE. (3) Confirm that when you enter to the 4. DEF, the screen automatically show the FREE-RUN screen. And the picture run up or down. (4) Adjust < 1. FREE-RUN > to stop the picture. But the picture does not stop completely. (5) Press the [MENU] key to memorize the set value.

4.9.5 FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS	Signal generator		FOCUS 1 VR FOCUS 2 VR [In FBT]	(1) Receive the crosshatch signal. (2) Set the ZOOM to REGULAR mode. (3) Adjust the FOCUS1 VR to the horizontal lines will be clear and in fine detail at centre of screen. (4) Adjust the FOCUS2 VR to the vertical lines will be clear and in fine detail at the circumference part of screen. (5) Make sure that the picture is in focus even when the screen gets darkened.





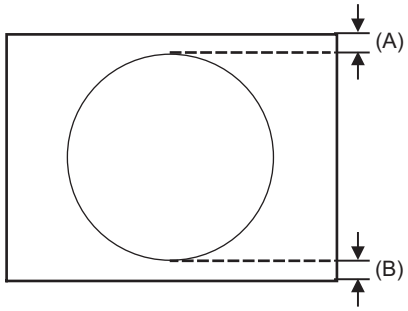
4.9.6 DEFLECTION CIRCUIT

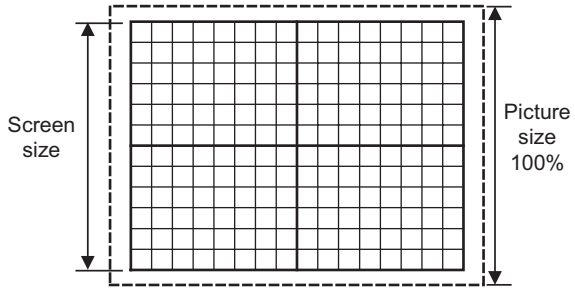
(1) The deflection adjustment using the remote control unit is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

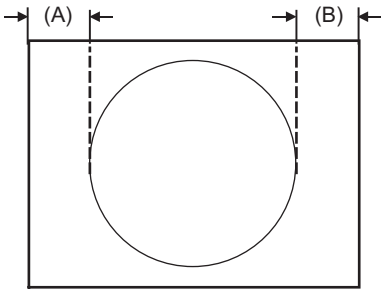
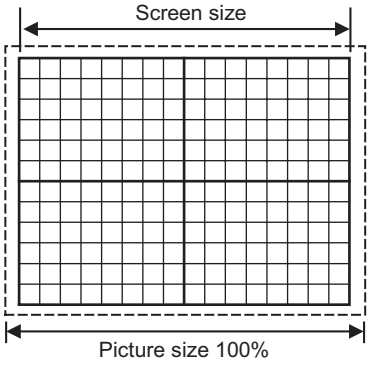
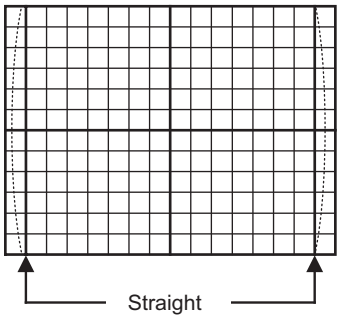
(2) There are several kinds of adjustment modes with the vertical frequency (Vertical frequency : PAL-50Hz, NTSC-60Hz).
- At first, the adjustment in PAL-50Hz, 900i mode should be done. Then the adjustment for the other vertical frequency mode is corrected in the respective value at the same time.
- However, if the picture quality has not been optimized, adjust each vertical frequency mode again, respectively.
- If adjustment in PAL-50Hz each vertical frequency mode has been done in very high accuracy, the adjustment for the same vertical frequency mode in NTSC-60Hz mode is corrected in the respective value. Adjustment is completed at this time.
- If the picture quality in NTSC-60Hz has not been optimized, adjust each aspect mode again in NTSC-60Hz, respectively. In this case, only NTSC-60Hz each aspect mode is corrected.

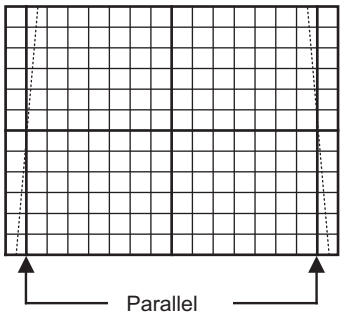
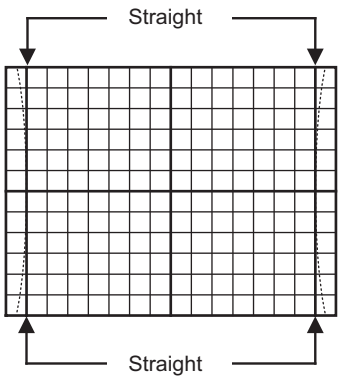
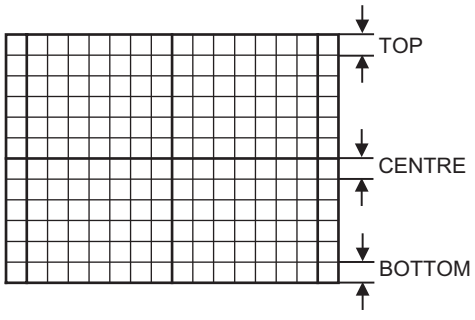
(3) Deflection adjustment should surely carry out by setting aspect mode to REGULAR. Since a deflection setup of those other than REGULAR mode is carried out by SERVICE MODE 8. IP setting, adjustment in aspect modes other than REGULAR mode is unnecessary.

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>V. POSITION</td><td>Signal generator

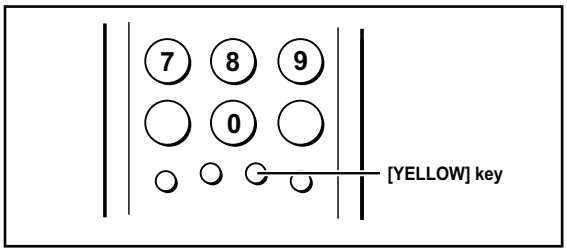
Remote control unit</td><td></td><td>[4. DEF]
2. V-SHIFT</td><td rowspan="2">(1) Receive the circle pattern signal.
(2) Set the ZOOM to REGULAR mode.
(3) Select 4. DEF from the SERVICE MODE.
(4) Set the initial setting value of < 2. V-SHIFT >.
(5) Adjust < 2. V-SHIFT > to become A=B as shown in the figure.
(6) Press the [MENU] key to memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>V. SIZE</td><td>Signal generator

Remote control unit</td><td></td><td>[4. DEF]
3. V-SIZE</td><td rowspan="2">(1) Receive the crosshatch signal.
(2) Set the ZOOM to REGULAR mode.
(3) Select 4. DEF from the SERVICE MODE.
(4) Set the initial setting value of < 3. V-SIZE >.
(5) Adjust < 3. V-SIZE > to become the vertical screen size is 92%.
(6) Press the [MENU] key to memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
</table>

Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION	Signal generator Remote control unit		[4. DEF] 4. H-CENT	(1) Receive the circle pattern signal. (2) Set the ZOOM to REGULAR mode. (3) Select 4. DEF from the SERVICE MODE. (4) Set the initial setting value of < 4. H-CENT >. (5) Adjust < 4. H-CENT > to become A=B as shown in left figure. (6) Press the [MENU] key to memorize the set value.
				
H. SIZE	Signal generator Remote control unit		[4. DEF] 5. H-SIZE	(1) Receive the crosshatch signal. (2) Set the ZOOM to REGULAR mode. (3) Select 4. DEF from the SERVICE MODE. (4) Set the initial setting value of < 5. H-SIZE >. (5) Adjust < 5. H-SIZE > to become the horizontal screen size is 92%. (6) Press the [MENU] key to memorize the set value.
				
SIDE PIN	Signal generator Remote control unit		[4. DEF] 7. EW-PIN	(1) Receive the crosshatch signal. (2) Set the ZOOM to REGULAR mode. (3) Select 4. DEF from the SERVICE MODE. (4) Set the initial setting value of < 7. EW-PIN >. (5) Adjust < 7. EW-PIN > so that second vertical lines at the right and left edges of the screen become straight. Also make third vertical lines become straight. (6) Press the [MENU] key to memorize the set value.
				

Item	Measuring instrument	Test point	Adjustment part	Description
TRAPEZIUM	Signal generator Remote control unit		[4. DEF] 6. TRAPEZ	(1) Receive the crosshatch signal. (2) Set the ZOOM to REGULAR mode. (3) Select 4. DEF from the SERVICE MODE. (4) Set the initial setting value of < 6. TRAPEZ >. (5) Adjust < 6. TRAPEZ > to become the vertical lines at the right and left edges of the screen parallel. (6) Press the [MENU] key to memorize the set value.
				
CORNER PIN	Signal generator Remote control unit		[4. DEF] 8. COR-UP 9. COR-LOW	(1) Receive the crosshatch signal. (2) Set the ZOOM to REGULAR mode. (3) Select 4. DEF from the SERVICE MODEU. (4) Set the initial setting value of < 8. COR-UP >. (5) Adjust < 8. COR-UP > to become the vertical line at the upper corner straight. (6) Set the initial setting value of < 9. COR-LOW >. (7) Adjust < 9. COR-LOW > to become the vertical line at the lower corner straight. (8) Press the [MENU] key to memorize the set value.
				
V. LINEARITY	Signal generator Remote control unit		[4. DEF] 10. V.S-COR 11. V-LIN	Should not adjustment except for in case of under the condition that remarkably bad about vertical linearity. (1) Receive the crosshatch signal. (2) Set the ZOOM to REGULAR mode. (3) Select 4. DEF from the SERVICE MODEU. (4) Set the initial setting value of < 10. V.S-COR >. (5) Adjust the < 10. V.S-COR > to the all square in the crosshatch screen become true square. (6) Set the initial setting value of < 11.V-LIN >. (7) Adjust the < 11. V-LIN > to the all vertical lines become straight. (8) Press the [MENU] key to memorize the set value.
				

4.9.7 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (LOW LIGHT)	Signal generator Remote control unit		[2. V/C] 1. CUT_OF_R 2. CUT_OF_G 3. CUT_OF_B SCREEN VR [In FBT]	(1) Receive the 75% sll white signal. (2) Set the PICTURE MODE to STANDARD. (3) Set the WHITE BALANCE to MID. (4) Select the 2. V/C from the SERVICE MODE. (5) Set the initial setting value of < 1.CUT_OF_R >, < 2. CUT_OF_G > and < 3. CUT_OF_B >. (6) Press the [YELLOW] key to display a signal horizontal line. (7) Turn the SCREEN VR fully counterclockwise, then slowly turn it clockwise to where a red, blue or green colour is faintly visible. (8) Adjust the other two colours to where the single horizontal line appears white with the < 1.CUT_OF_R >, < 2. CUT_OF_G > or < 3. CUT_OF_B >. (9) Press the [MENU] key to memorize the set value. (10) Turn the SCREEN VR until the single horizontal line is displayed faitly. (11) Press the [YELLOW] key to cancel the single horizontal line mode. (12) Confirm that whether the color ingredient of R, G or B is visible to the black component, which shines white slightly.
				
WHITE BALANCE (HIGH LIGHT)	Signal generator Remote control unit		[2. V/C] 4. DRIVE_R 5. DRIVE_G 6. DRIVE_B	(1) Receive the 75% sll white signal. (2) Set the PICTURE MODE to STANDARD. (3) Set the WHITE BALANCE to MID. (4) Select the 2. V/C from the SERVICE MODE. (5) Set the initial setting value of < 4. DRIVE_R >, < 5. DRIVE_G > and < 6. DRIVE_B >. (6) Adjust the screen until it becomes white with the < 4. DRIVE_R >, < 5. DRIVE_G > and < 6. DRIVE_B >. (7) Press the [MENU] key to memorize the set value.
SUB BRIGHT	Remote control unit		[2. V/C] 7. BRIGHT	(1) Receive any broadcast. (2) Set the PICTURE MODE to STANDARD. (3) Set the WHITE BALANCE to MID. (4) Select 2. V/C from the SERVICE MODE. (5) Set the initial setting value of the < 7. BRIGHT >. (6) If the brightness is not the best with the initial setting value, adjust the < 7. BRIGHT > until you get the optimum brightness. (7) Press the [MENU] key to memorize the set values.
SUB CONTRAST	Remote control unit		[2. V/C] 8. CONT	(1) Receive any broadcast. (2) Set the PICTURE MODE to STANDARD. (3) Set the WHITE BALANCE to MID. (4) Select 2. V/C from the SERVICE MODE. (5) Set the initial setting value of the < 8. CONT >. (6) If the contrast is not the best with the initial setting value, adjust the < 8. CONT > until you get the optimum contrast. (7) Press the [MENU] key to memorize the set values.

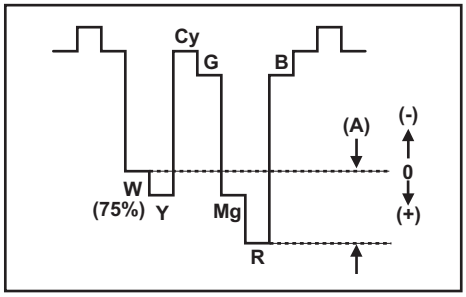
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td rowspan="2">SUB COLOUR</td><td>Signal generator

Remote control unit</td><td></td><td>[2. V/C]
9. COLOUR</td><td rowspan="2">Method of adjustment without measuring instruments
PAL COLOUR
(1) Receive PAL broadcast.
(2) Set the PICTURE MODE to STANDARD.
(3) Set the WHITE BALANCE to MID.
(4) Select 2. V/C from the SERVICE MODE.
(5) Set the initial setting value for < 9. COLOUR >.
(6) If the colour is not the best with the initial set value, adjust until you get the best colour.
(7) Press the [MENU] key to memorize the set value.

SECAM COLOUR
(1) Receive SECAM broadcast.
(2) Follow the same step 2 to 7 as in PAL COLOUR.
NTSC 3.58 COLOUR
(1) Input NTSC 3.58MHz COMPOSITE VIDEO signal.
(2) Follow the same step 2 to 7 as in PAL COLOUR.

NTSC 4.43 COLOUR
When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.</td></tr>
<tr><td>Signal generator

Oscilloscope

Remote control unit</td><td>TP-47R
TP-E
[CRT SOCKET PWB]</td><td>[2. V/C]
9. COLOUR</td></tr>
<tr><td colspan="4"> 

<table>
<tr><th rowspan="2">Setting item</th><th colspan="3">Adjustment value</th></tr>
<tr><th>PAL</th><th>SECAM</th><th>NTSC 3.58</th></tr>
<tr><td>9. COLOUR</td><td>+9V</td><td>+20V</td><td>+15V</td></tr>
</table></td><td colspan="2">Method of adjustment using measuring instruments
PAL COLOUR
(1) Receive PAL full field colour bar signal (75% white).
(2) Set the PICTURE MODE to STANDARD.
(3) Set the WHITE BALANCE to MID.
(4) Select 2. V/C from the SERVICE MODE.
(5) Set the initial setting value of < 9. COLOUR >.
(6) Connect the oscilloscope between TP-47R and TP-E.
(7) Adjust < 9. COLOUR > and bring the value of (A) in the illustration into the value shown in the table.
(8) Press the [MENU] key to memorize the set value.

SECAM COLOUR
(1) Receive SECAM colour bar signal (75% white).
(2) Follow the same step 2 to 8 as in PAL COLOUR.

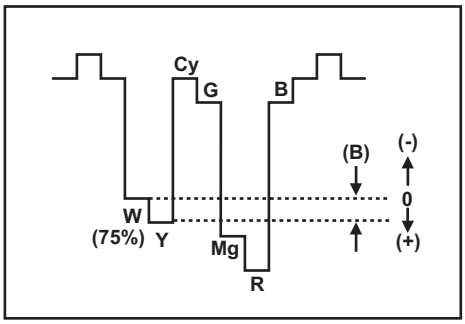
NTSC 3.58 COLOUR
(1) Input NTSC3.58MHz full field colour bar signal (75% white).
(2) Follow the same step 2 to 8 as in PAL COLOUR.

NTSC 4.43 COLOUR
When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.</td></tr>
</table>

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td rowspan="2">SUB TINT</td><td>Signal generator

Remote control unit</td><td></td><td>[2. V/C]
10. HUE</td><td>Method of adjustment without measuring instruments
NTSC 3.58 TINT
(1) Input NTSC3.58MHz full field colour bar signal (75% white).
(2) Set the PICTURE MODE to STANDARD.
(3) Set the WHITE BALANCE to MID.
(4) Select 2. V/C from the SERVICE MODE.
(5) Set the initial setting value of < 10. HUE >.
(6) If the tint is not the best with the initial set value, adjust until you get the best hue.
(7) Press the [MENU] key to memorize the set value.
NTSC 4.43 TINT
When NTSC 3.58 TINT set, NTSC 4.43 TINT will automatically set.</td></tr>
<tr><td>Signal generator

Oscilloscope

Remote control unit</td><td>TP-47R
TP-E
[CRT SOCKET PWB]</td><td>[2. V/C]
10. HUE</td><td rowspan="2">Method of adjustment using measuring instruments
NTSC 3.58 TINT
(1) Input NTSC3.58MHz full field colour bar signal (75% white).
(2) Set the PICTURE MODE to STANDARD.
(3) Set the WHITE BALANCE to MID.
(4) Select 2. V/C from the SERVICE MODE.
(5) Set the initial setting value of < 10. HUE >.
(6) Connect the oscilloscope between TP-47R and TP-E.
(7) Adjust < 10. HUE > and bring the value of (B) in the illustration into the value shown in the table.
(8) Press the [MENU] key to memorize the set value.
NTSC 4.43 TINT
When NTSC 3.58 TINT set, NTSC 4.43 TINT will automatically set.</td></tr>
<tr><td colspan="3"> 

<table>
<tr><th>Setting item</th><th>Adjustment value</th></tr>
<tr><td>10.HUE</td><td>+1V</td></tr>
</table></td></tr>
<tr><td>SUB SCREEN CONTRAST</td><td>Signal generator

Remote control unit</td><td></td><td>[2. V/C]
11. TWN_CNT</td><td>(1) Set the MULTI-SCREEN to 2 screen mode.
(2) Receive the black and white signal (color off) to both right and left screen.
(3) Select 2. V/C from the SERVICE MODE.
(4) Set the initial setting value of < 11. TWN_CNT >.
(5) If the contrast of both screen are not the best with the initial setting value, adjust of the < 11. TWN_CNT > until you get the optimum contrast.
(6) Press the [MENU] key to memorize the set values.</td></tr>
</table>

Item	Measuring instrument	Test point	Adjustment part	Description
SUB SCREEN COLOUR & TINT	Signal generator Remote control unit Oscilloscope	TP-47R TP-E [CRT SOCKET PWB]	[2. V/C] 12. TWN_COL 13. TWN_TNT	**PAL COLOUR** (1) Set the MULTI-SCREEN to 2 screen mode. (2) Receive PAL full field colour bar signal (75% white) to the sub screen. (3) Select 2. V/C from the SERVICE MODE. (4) Set the initial setting value of < 12. TWN_COL >. (5) Connect the oscilloscope between TP-47R and TP-E. (6) Adjust < 12.TWN_COL > so that a right screen voltage difference between white and red of the oscilloscope may become the same as a left screen. (7) Press the [MENU] key to memorize the set value. **SECAM COLOUR** (1) Set the MULTI-SCREEN to 2 screen mode. (2) Receive SECAM full field colour bar signal (75% white)to the sub screen. (3) Follow the same step 3 to 7 as in PAL COLOUR. **NTSC3.58 COLOUR** (1) Set the MULTI-SCREEN to 2 screen mode. (2) Input NTSC3.58 full field colour bar signal (75% white) to the sub screen. (3) Follow the same step 3 to 7 as in PAL COLOUR. **NTSC 4.43 COLOUR** When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set. **NTSC3.58 TINT** (1) Set the MULTI-SCREEN to 2 screen mode. (2) Input NTSC3.58 full field colour bar signal (75% white) to the sub screen. (3) Select 2. V/C from the SERVICE MODE. (4) Set the initial setting value of < 13. TWN_TNT >. (5) Connect the oscilloscope between TP-47R and TP-E. (6) Adjust < 13.TWN_TNT > so that a right screen voltage difference between white and yellow of the oscilloscope may become the same as a left screen. (7) Press the [MENU] key to memorize the set value. **NTSC 4.43 TINT** When NTSC 3.58 TINT set, NTSC 4.43 TINT will automatically set.

4.9.8 VSM & SSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
VSM & SSM PRESET	Remote control unit		[5. VSM & SSM PRESET] 1. CONT 2. BRIGHT 3. SHARP 4. COLOUR 5. TINT 1. WDR R 2. WDR G 3. WDR B 6. 120Hz 7. 500Hz 8. 1.5KHz 9. 5KHz 10. 10KHz 11. EFFECT	(1) Select 5. VSM & SSM PRESET from the SERVICE MODE. (2) Press the [MENU] key and set the PICTURE MODE to BRIGHT. (3) Select < 1. CONT >. (4) Set the initial setting value of PICTURE MODE, as shown in the below table. (5) Press the [MENU] key to memorize the set value. (6) Select < 2.BRIGHT > to < 5.TINT > in turn, and set the values. (7) Respectively select the "SOFT" and "STD". Make similar adjustment as same step as above. (8) Set the WHITE BALANCE to COOL. (9) Select < 1.WDR R >. (10) Set the initial setting value of WHITE BALANCE, as shown in the below table. (11) Press the [MENU] key to memorize the set value. (12) Select < 2.WDR G > and < 3.WDR B > in turn, and set values. (13) Respectively select the "WARM" and "MID". Make similar adjustment as same step as above. (14) Set the SOUND STATUS to DYNAMIC. (15) Select <6. 120Hz >. (16) Set the initial setting value of SOUND STATUS, as shown in the below table. (17) Press the [MENU] key to memorize the set value. (18) Select <7. 500Hz > to <11. EFFECT > in turn, and set values. (19) Respectively select the "MUSIC", "NEWS" and "USER". Make similar adjustment as same step as above.

VSM & SSM PRESET SETTING TABLE

Setting item	Variable range	Setting value									
		PICTURE MODE			WHITE BALANCE			SOUND STATUS			
		BRIGHT	STD	SOFT	COOL	MID	WARM	DYNAMIC	MUSIC	NEWS	USER
1.CONT	-16~16	16	5	-8	---	---	---	---	---	---	---
2.BRIGHT	-16~16	0	0	0	---	---	---	---	---	---	---
3.SHARP	-16~16	0	0	-2	---	---	---	---	---	---	---
4.COLOUR	-16~16	0	0	-2	---	---	---	---	---	---	---
5.TINT	-16~16	0	0	0	---	---	---	---	---	---	---
1.WDR R	-64~63	---	---	---	0	0	19	---	---	---	---
2.WDR G	-64~63	---	---	---	0	0	0	---	---	---	---
3.WDR B	-64~63	---	---	---	12	0	0	---	---	---	---
6.120Hz	-10~10	---	---	---	---	---	---	4	3	-7	0
7.500Hz	-10~10	---	---	---	---	---	---	5	2	1	0
8.1.5KHz	-10~10	---	---	---	---	---	---	-2	0	5	0
9.5KHz	-10~10	---	---	---	---	---	---	1	1	2	0
10.10KHz	-10~10	---	---	---	---	---	---	3	3	-6	0
11.EFFECT	-128~127	---	---	---	---	---	---	0	0	-61	0

SECTION 5
TROUBLESHOOTING

5.1 SELF CHECK FUNCTIONS

5.1.1 OUTLINE

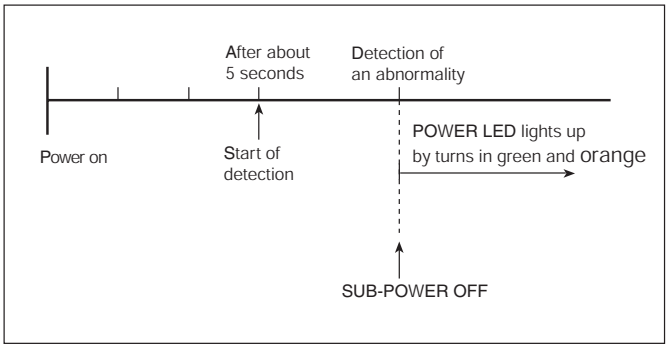
These models have self-check functions given below. When an abnormality has been detected, the SUB POWER is turned off and POWER LED lights up by turns in green and orange. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

5.1.2 SELF CHECK ITEMS

Check item	Details of detection	Method of detection	State of abnormality
Low B short protection	A short on the low B (12V, 9V, 5V, 3.3V, 2.5V) line is detected.	The protect port on the microcomputer (11pin) is always monitored at 150msec intervals. If an abnormality is detected nine time successively, it is judged that there is an abnormality.	When an abnormality has detected, the SUB POWER is turned off and POWER LED lights up by turns in green and orange. While the SUB POWER is being turned off, the POWER key on the remote control unit is not operational until the power cord is taken out and put in again.
CRT neck broken protection	Operation of CRT neck broken protection circuit. (Vertical amplitude is detected.)	DITTO	DITTO

5.1.3 SELF CHECK INDICATING FUNCTION

When an abnormality has been detected at about 5 seconds after the power is turned on, the SUB POWER is turned off immediately and the POWER LED lights up by turns in green and orange.



JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YA207)

Printed in Japan
VPT

JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

HV-Z29J4,
HV-Z29J4/H,
HV-Z29J4/S

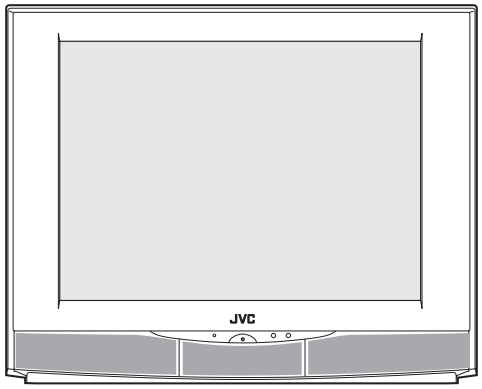
CD-ROM No.SML200412

BASIC CHASSIS
MM2

D.I.S.T.
Digital Image Scaling Technology

VIRTUAL DOLBY SURROUND

BBE DIGITAL



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No.YA207
2004/12

HV-Z29J4, HV-Z29J4/H, HV-Z29J4/S
STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ/V
(4)Oscilloscope sweeping time	: H ⇒ 20µs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [µF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [µF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

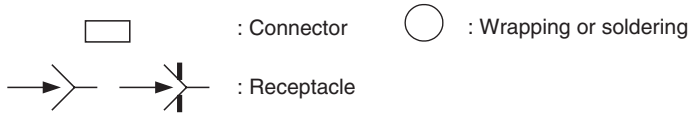
No unit	: [µH]
Others	: As specified

(4)Power Supply

∗ Respective voltage values are indicated

(5)Test point

(6)Connecting method



(7)Ground symbol

⊥ : LIVE side ground

⏚ : ISOLATED(NEUTRAL) side ground

⏚ : EARTH ground

▽ : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

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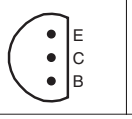
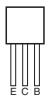
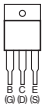
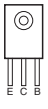
FRONT CONTROL PWB PATTERN 2-58

USING P.W. BOARD

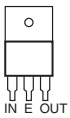
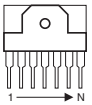
PWB ASS'Y name	H V-Z29J4	H V-Z29J4/H	H V-Z29J4/S
MAIN P.W. BOARD	SMM-1251A-H2	←	SMM-1252A-H2
POWER & DEF P.W. BOARD	SMM-2251A-H2	←	←
CRT SOCKET P.W. BOARD	SMM-3251A-H2	←	←
FRONT CONTROL P.W. BOARD	SMM-8251A-H2	←	←
POWER SW P.W. BOARD	SMM-8951A-H2	←	←
LINE FILTER P.W. BOARD	SMM-9251A-H2	←	←
EHT P.W. BOARD	SMM0E251A-H2	←	←
DEF OSC P.W. BOARD	SMM0H251A-H2	←	←
MICOM P.W. BOARD	SMM0M251A-H2	←	←
SUB TUNER P.W. BOARD	SMM0R251A-H2	←	←
AV SW P.W. BOARD	SMM0S251A-H2	←	←
DIST P.W. BOARD	SMM0Z251A-H2	←	←

SEMICONDUCTOR SHAPES

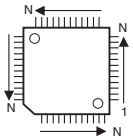
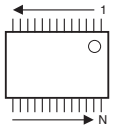
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

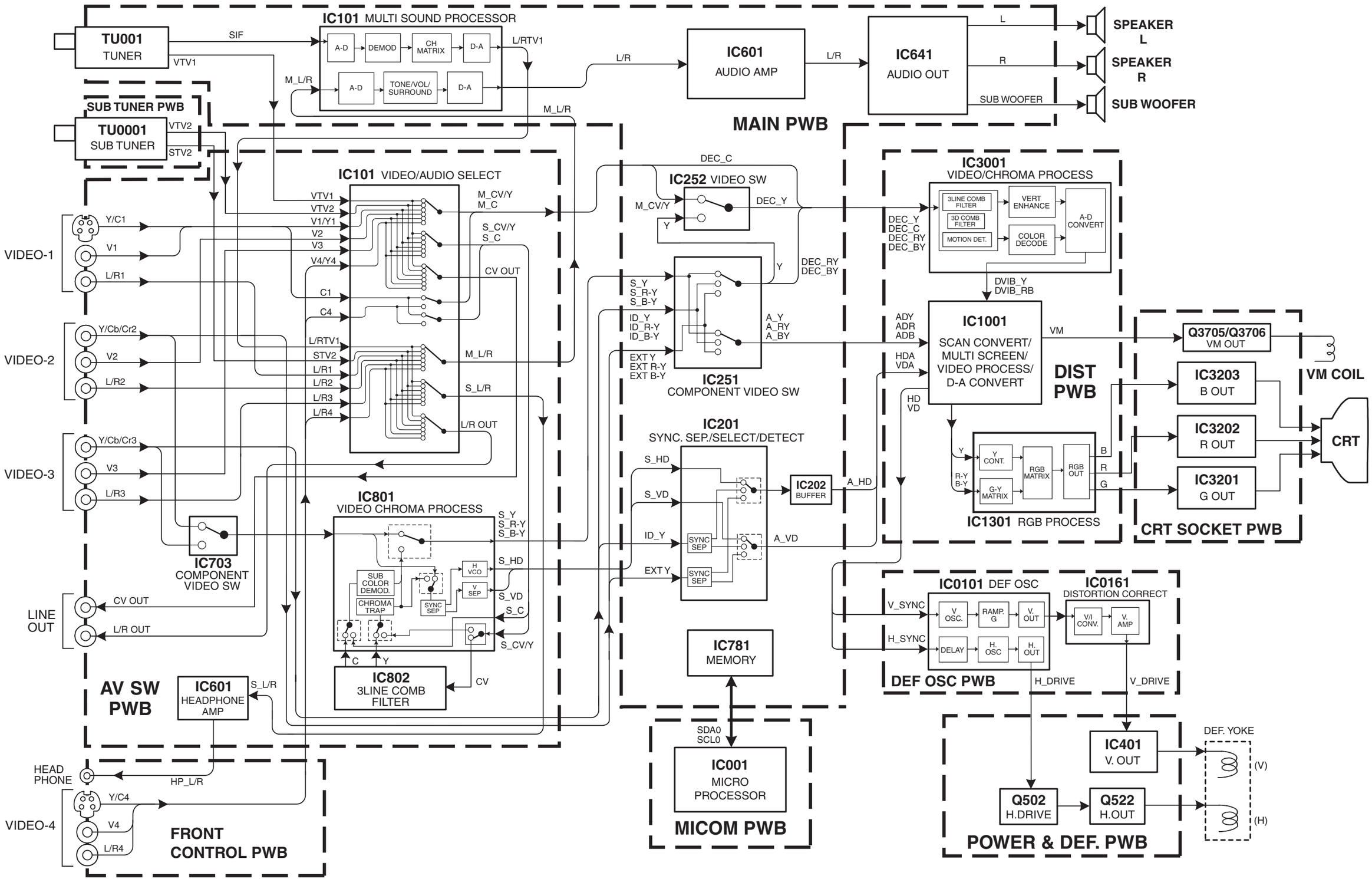
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

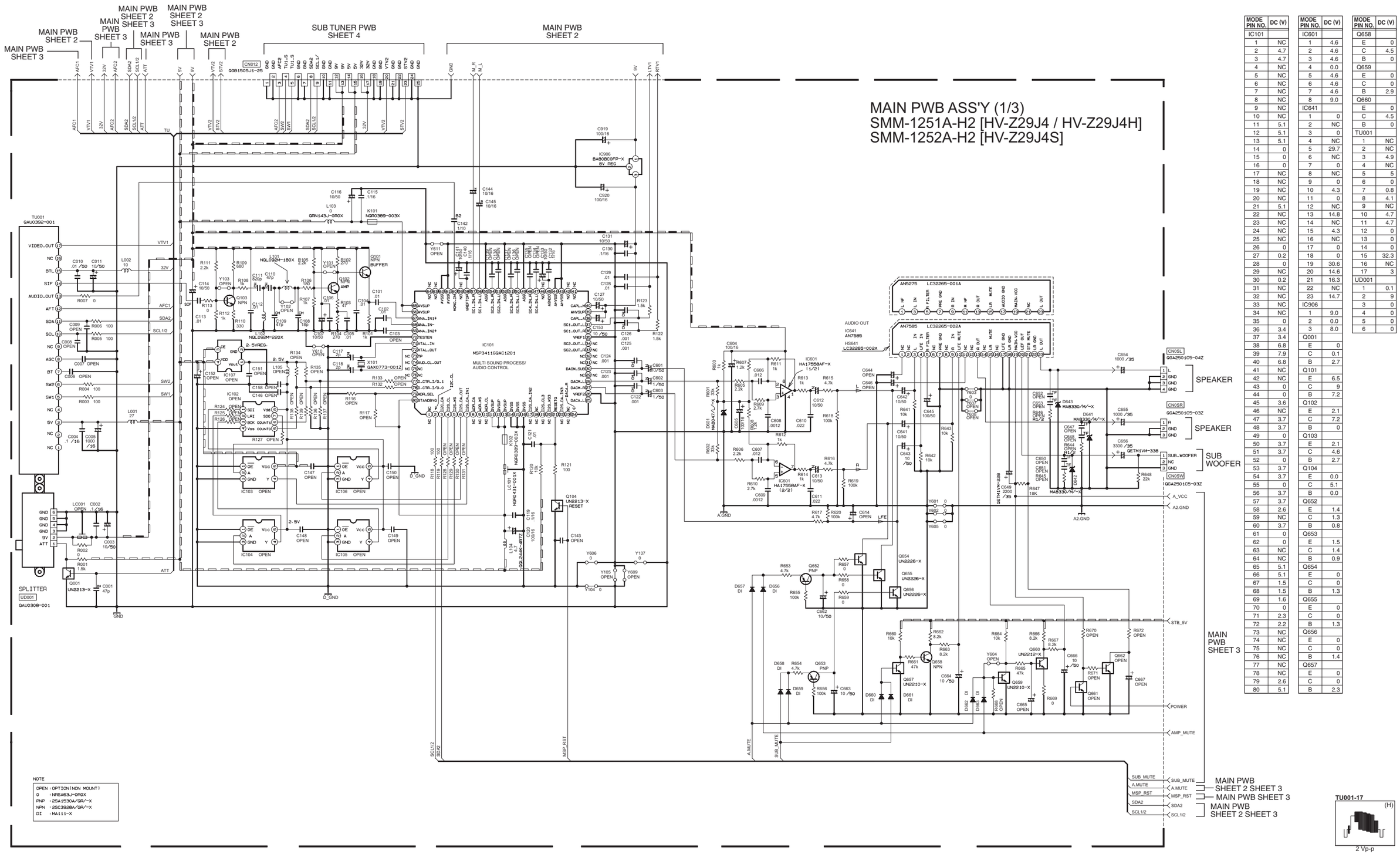
TOP VIEW		
		

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/3) SHEET1

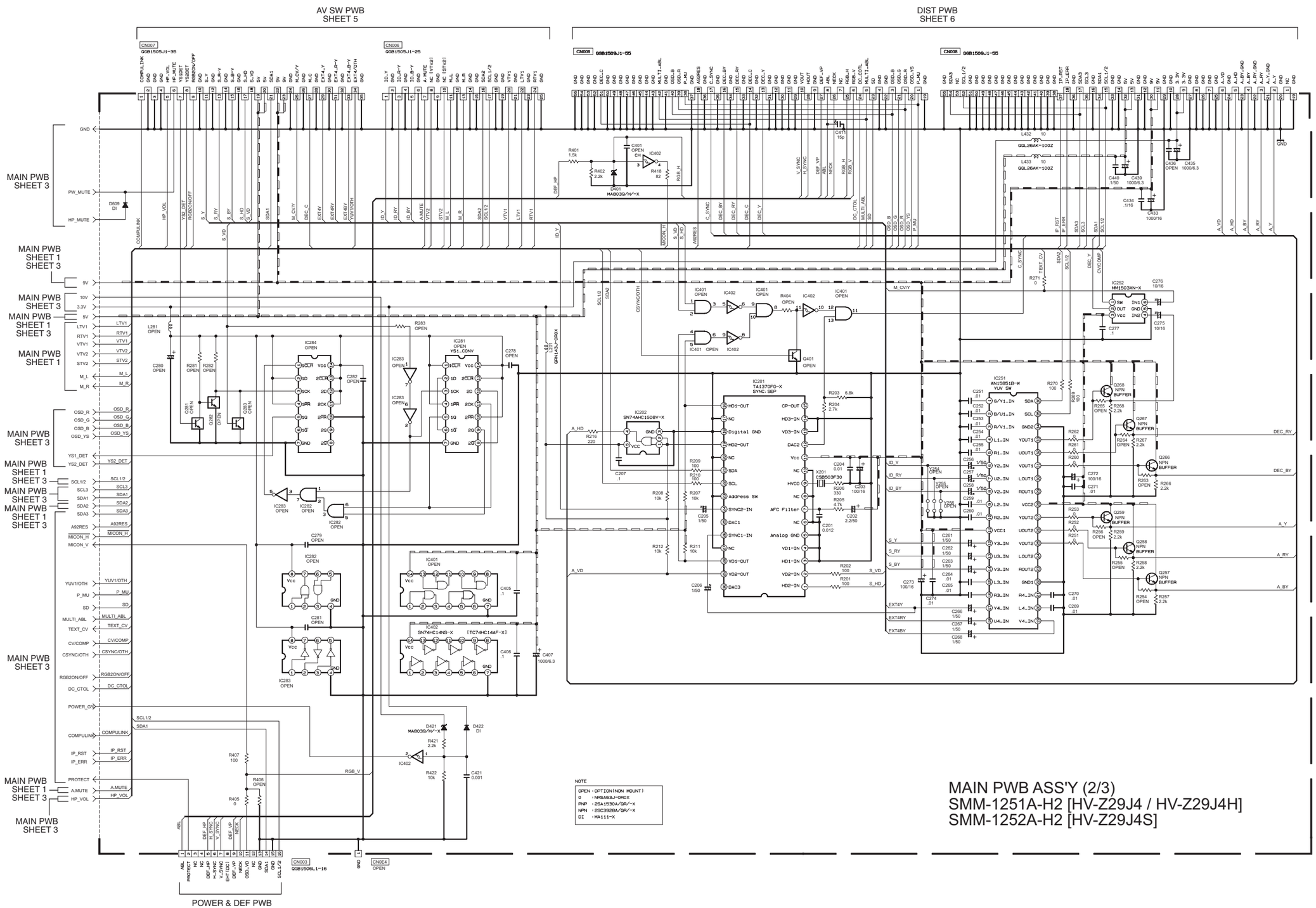


MODE PIN NO.	DC (V)
IC101	
1	NC
2	4.7
3	4.7
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	NC
11	5.1
12	5.1
13	5.1
14	0
15	0
16	0
17	NC
18	NC
19	NC
20	NC
21	5.1
22	NC
23	NC
24	NC
25	NC
26	0
27	0.2
28	0
29	NC
30	0.2
31	NC
32	NC
33	NC
34	NC
35	0
36	3.4
37	3.4
38	6.8
39	7.9
40	6.8
41	NC
42	NC
43	0
44	0
45	3.6
46	NC
47	3.7
48	3.7
49	0
50	3.7
51	3.7
52	0
53	3.7
54	3.7
55	0
56	3.7
57	3.7
58	2.6
59	NC
60	3.7
61	0
62	0
63	NC
64	NC
65	5.1
66	5.1
67	1.5
68	1.5
69	1.6
70	0
71	2.3
72	2.2
73	NC
74	NC
75	NC
76	NC
77	NC
78	NC
79	2.6
80	5.1

MODE PIN NO.	DC (V)
IC601	
1	4.6
2	4.6
3	4.6
4	0.0
5	4.6
6	4.6
7	4.6
8	9.0
IC641	
1	0
2	NC
3	0
4	NC
5	29.7
6	NC
7	0
8	NC
9	0
10	4.3
11	0
12	NC
13	14.8
14	NC
15	4.3
16	NC
17	0
18	0
19	30.6
20	14.6
21	16.3
22	NC
23	14.7
IC906	
1	9.0
2	0.0
3	8.0
Q001	
E	0
C	0.1
B	2.7
Q101	
E	6.5
C	9
B	7.2
Q102	
E	2.1
C	7.2
B	0
Q103	
E	2.1
C	4.6
B	2.7
Q104	
E	0.0
C	5.1
B	0.0
Q652	
E	1.4
C	1.3
B	0.8
Q653	
E	1.5
C	1.4
B	0.9
Q654	
E	0
C	0
B	1.3
Q655	
E	0
C	0
B	1.4
Q656	
E	0
C	0
B	2.3

MODE PIN NO.	DC (V)
Q658	
E	0
C	4.5
B	0
Q659	
E	0
C	0
B	2.9
Q660	
E	0
C	4.5
B	0
TU001	
1	NC
2	NC
3	4.9
4	NC
5	5
6	0
7	0.8
8	4.1
9	NC
10	4.7
11	4.7
12	0
13	0
14	0
15	32.3
16	NC
17	3
UD001	
1	0.1
2	9
3	0
4	0
5	0
6	0

MAIN PWB CIRCUIT DIAGRAM (2/3) SHEET 2

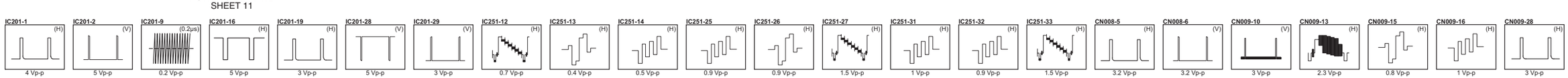


MAIN PWB ASS'Y (2/3)
SMM-1251A-H2 [HV-Z29J4 / HV-Z29J4H]
SMM-1252A-H2 [HV-Z29J4S]

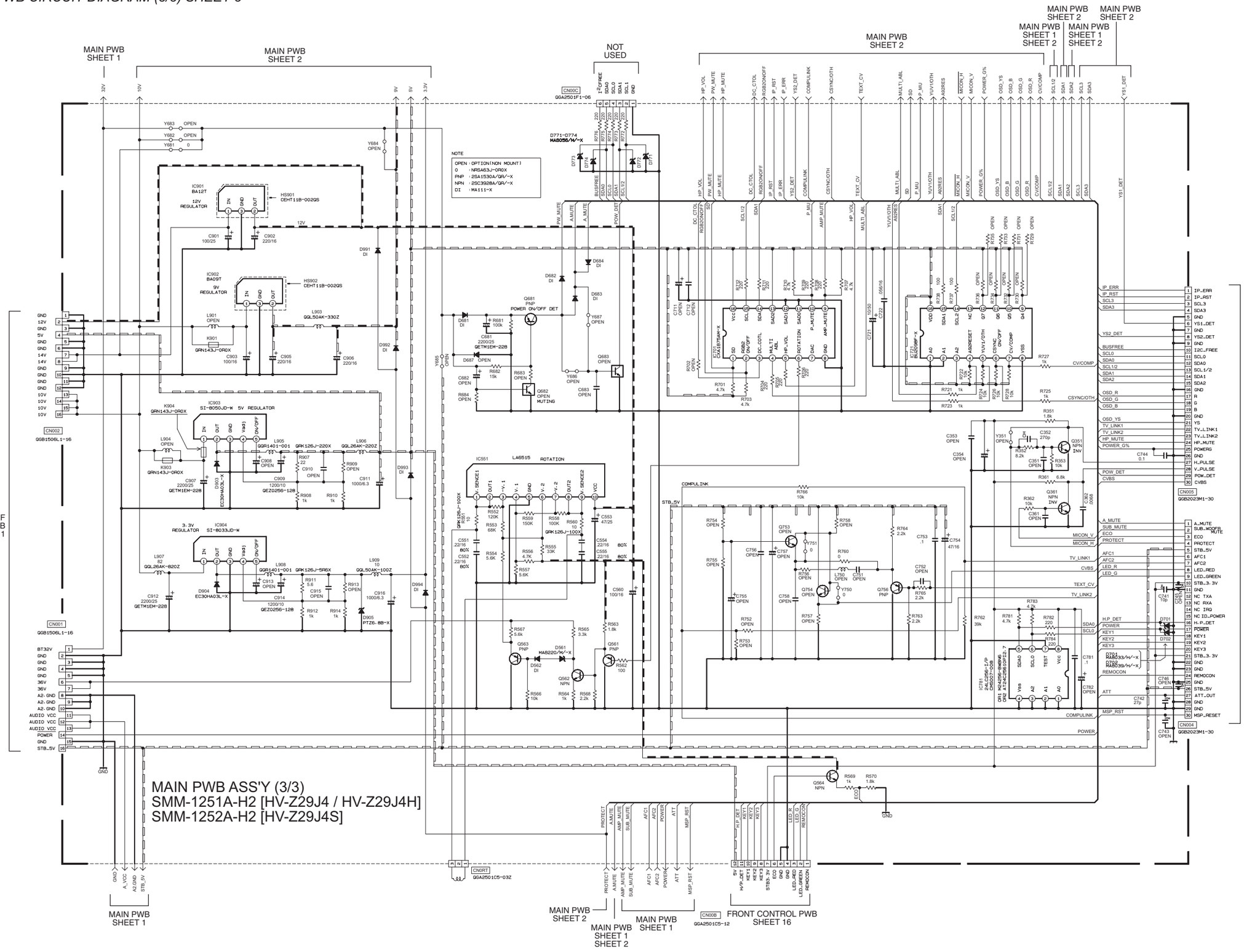
MODE PIN NO.	DC (V)
IC201	
1	0.3
2	0.1
3	0
4	0
5	0
6	0
7	6.3
8	0
9	5
10	0
11	9
12	6.7
13	0
14	0
15	0.1
16	4.7
17	0
18	0
19	0.3
20	0
21	4.7
22	4.7
23	0
24	2
25	5.1
26	2
27	0
28	4.9
29	0.2
30	NC
IC202	
1	0.3
2	0.3
3	0.0
4	0.2
5	3.2
IC251	
1	4.5
2	4.5
3	4.5
4	4.5
5	4.5
6	4.5
7	4.5
8	4.5
9	4.5
10	4.5
11	9
12	4.5
13	4.5
14	4.5
15	4.5
16	4.5
17	4.5
18	4.5
19	4.5
20	4.6
21	4.6
22	0
23	NC
24	NC
25	4.5
26	4.5
27	4.5
28	9
29	NC
30	NC
31	4.5
32	4.5
33	4.5
34	0
35	4.7
36	4.7
IC252	
1	0.0
2	3.9
3	9.0
4	7.0
5	0.0
6	4.6

MODE PIN NO.	DC (V)
IC402	
1	3.8
2	0.0
3	0.6
4	4.3
5	NC
6	NC
7	0.0
8	NC
9	NC
10	NC
11	NC
12	NC
13	NC
14	5.1
Q257	
E	3.9
C	9.0
B	4.5
Q258	
E	3.9
C	9.0
B	4.5
Q259	
E	3.9
C	9.0
B	4.5
Q266	
E	4.0
C	9.0
B	4.7
Q267	
E	3.9
C	9.0
B	4.5
Q268	
E	3.9
C	9.0
B	4.6
CN008	
1	NC
2	3.9
3	3.9
4	3.9
5	0.2
6	0.2
7	0
8	0
9	3.1
10	0
11	9
12	0
13	5.1
14	0
15	4.7
16	0
17	3.3
18	3
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	3.1
29	0
30	9
31	0
32	5.1
33	0
34	4.7
35	3.3
36	0
37	3.2
38	0
39	0
40	0
41	0
42	0
43	0
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	4.7
53	NC
54	3.3
55	0

MODE PIN NO.	DC (V)
CN009	
1	0
2	0.1
3	0.1
4	0
5	0.4
6	0
7	0
8	11
9	0
10	0
11	0
12	0
13	3.9
14	4.3
15	3.7
16	3.9
17	0
18	0
19	0
20	0
21	0.1
22	0
23	0
24	0
25	0.6
26	0
27	0.1
28	0.1
29	0
30	0
31	0
32	0
33	0
34	0
35	0
36	0
37	0
38	0
39	0.2
40	0.2
41	0
42	0.4
43	0
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	4.3
52	0
53	0
54	0
55	0

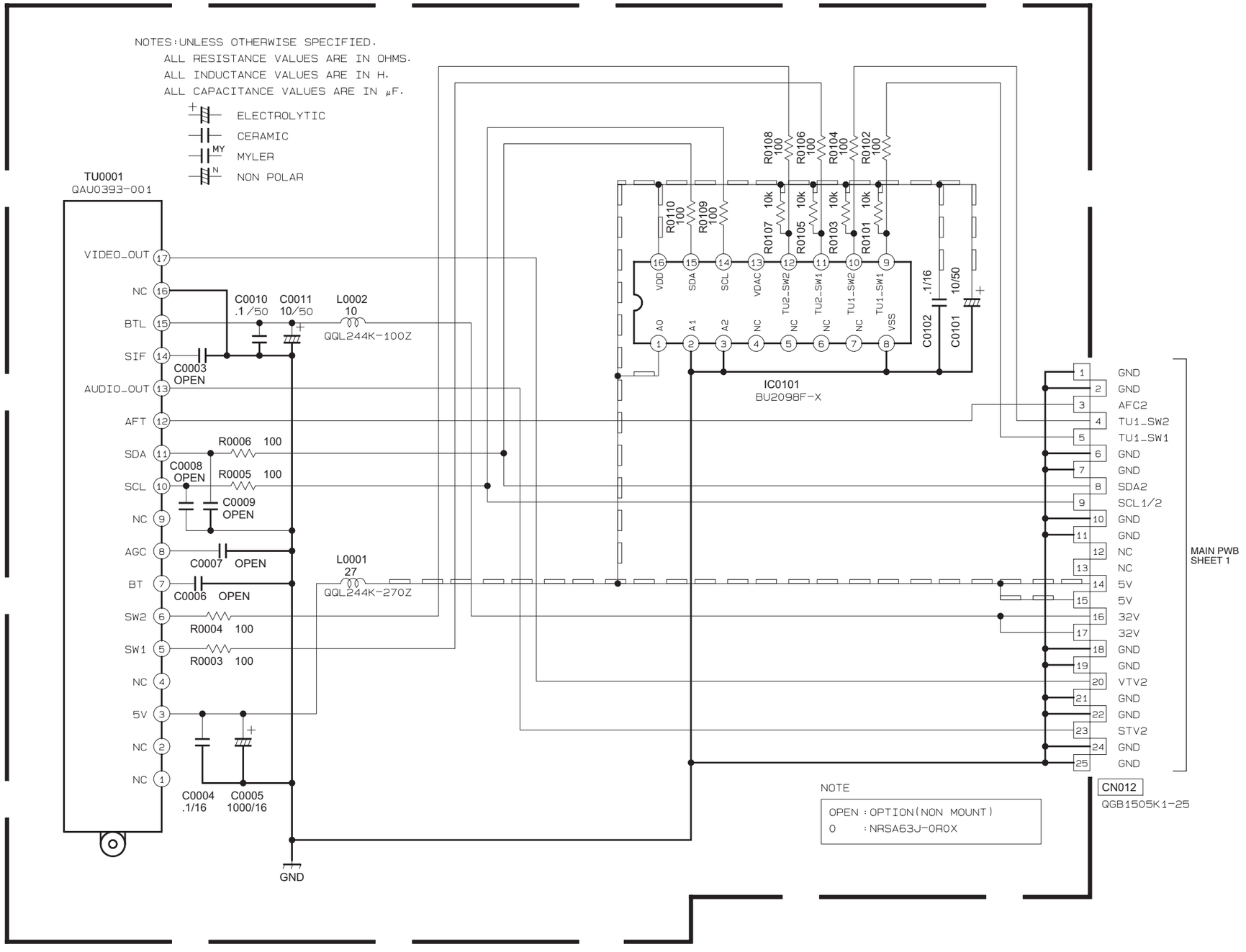


MAIN PWB CIRCUIT DIAGRAM (3/3) SHEET 3



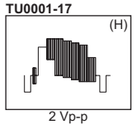
MODE PIN NO.	DC (V)
IC551	
1	7.0
2	7.0
3	6.5
4	6.5
5	0.0
6	6.3
7	6.3
8	6.1
9	6.1
10	12.0
IC701	
1	0.0
2	0.1
3	0.3
4	0.4
5	2.0
6	2.5
7	0.3
8	0.0
9	3.5
10	0.0
11	0.0
12	0.0
13	5.1
14	4.7
15	4.7
16	5.1
IC721	
1	0.0
2	0.1
3	5.1
4	0.1
5	5.1
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.1
14	4.7
15	4.7
16	5.1
IC781	
1	0.0
2	0.3
3	0.0
4	0.0
5	3.3
6	3.3
7	0.0
8	3.3
IC901	
1	15.6
2	12.0
3	0.0
IC902	
1	10.0
2	9.1
3	0.0
IC903	
1	10.1
2	5.3
3	0.0
4	5.0
5	1.5
IC904	
1	9.9
2	3.4
3	0.0
4	3.3
5	3.4
Q351	
E	0.0
C	0.5
B	0.5
Q361	
E	0.0
C	3.2
B	0.0
Q561	
E	3.1
C	0.0
B	2.5
Q562	
E	2.5
C	27.2
B	3.1
Q563	
E	5.2
C	0.0
B	4.6

MODE PIN NO.	DC (V)
Q654	
E	0
C	0
B	1.3
Q681	
E	15.1
C	-1.6
B	15.6
Q756	
E	2.4
C	0.0
B	1.3
CN004	
1	0.3
2	2.8
3	2.4
4	3.2
5	4.8
6	4.3
7	4.4
8	3.3
9	0
10	3.3
11	0
12	0
13	3.3
14	3.3
15	0
16	2
17	0
18	3.3
19	3.3
20	3.3
21	3.3
22	0
23	0
24	0.5
25	0
26	4.8
27	2.8
28	0
29	0
30	0
CN005	
1	3
2	3.2
3	3.2
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	3.3
13	4.7
14	4.8
15	4.8
16	0
17	0.2
18	0.2
19	0.2
20	0
21	0
22	0
23	0
24	0.2
25	0
26	0
27	0.5
28	3.2
29	0.3
30	2.4



MODE PIN NO.	DC (V)
IC0101	
1	5.1
2	0
3	0
4	NC
5	NC
6	NC
7	NC
8	0
9	5
10	0
11	0
12	0
13	NC
14	4.5
15	4.7
16	5.1
TU0001	
1	NC
2	NC
3	4.8
4	NC
5	0
6	0
7	32.2
8	4.2
9	NC
10	4.7
11	4.6
12	4.3
13	2.3
14	2
15	32.4
16	NC
17	3.1

TU0001-17 (H)



2 Vp-p

SUB TUNER PWB ASS'Y
SMM0R251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

FRONT CONTROL PWB
SHEET 16

AV SW PWB ASS'Y
SMM0S251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

NOTE
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X
DI : MA111-X
BW : BUS WIRE
OPEN: NON-MOUNT

MAIN PWB
SHEET 2

TO MAIN PB

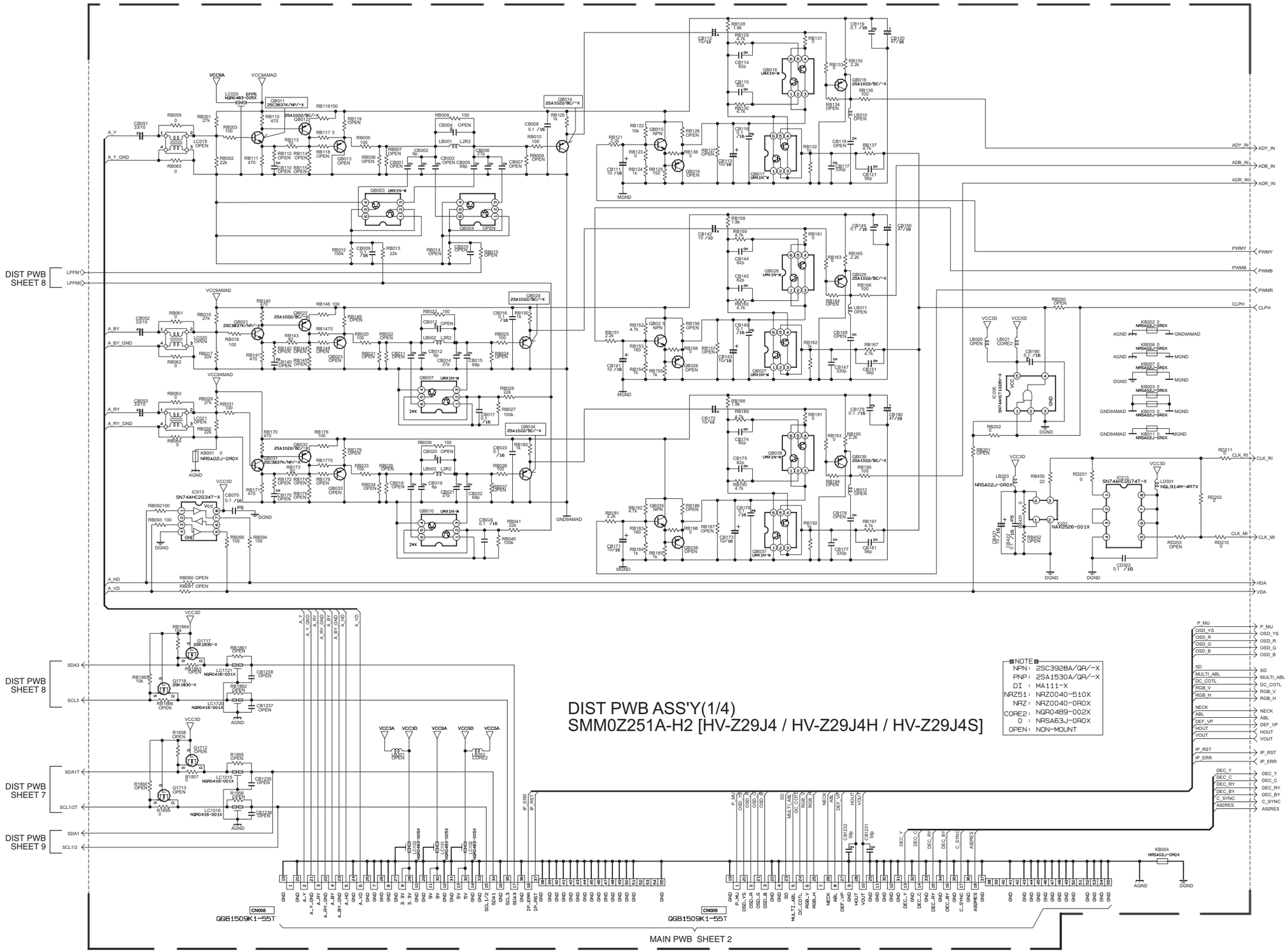
MODE PIN NO.	DC (V)
IC101	
1	3.8
2	4.3
3	3.8
4	4.2
5	0.1
6	NC
7	0
8	4.3
9	4.3
10	4.4
11	4.4
12	4.3
13	NC
14	0
15	3.8
16	4.3
17	3.8
18	4.3
19	4.3
20	NC
21	NC
22	3.8
23	4.3
24	3.8
25	4.3
26	4.3
27	NC
28	NC
29	4.3
30	4.8
31	4.3
32	9
33	4.9
34	4.8
35	0
36	NC
37	NC
38	4.3
39	NC
40	4.3
41	4.4
42	9
43	4.5
44	4.5
45	4.4
46	NC
47	4.4
48	0
49	4.8
50	4.3
51	4.3
52	4.3
53	4.6
54	4.3
55	NC
56	4
57	0
58	4.1
59	4.3
60	3.9
61	4.3
62	4.3
63	4.5
64	4.3
IC601	
1	8.5
2	3.9
3	1.3
4	1.3
5	3.9
6	1.8
7	NC
8	NC
9	3.9
10	3.9
11	1.3
12	1.3
13	3.9
14	0
IC703	
1	4.6
2	6.5
3	3.2
4	0
5	3.2
6	3.2
7	6.5
8	4.6
9	0.1
10	0
11	4.6
12	6.5
13	9
14	4.6
15	0
16	4.6

MODE PIN NO.	DC (V)
IC801	
1	2.4
2	1.8
3	1.4
4	0.2
5	2.4
6	5
7	2.5
8	0
9	0.3
10	0.7
11	2.4
12	5
13	4.7
14	4.7
15	NC
16	0
17	2.5
18	2.5
19	1.4
20	2.4
21	1.6
22	1.8
23	1.8
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0
32	5
33	0
34	0
35	0
36	NC
37	5
38	4
39	NC
40	3.3
41	2.9
42	4.5
43	1.7
44	2.9
45	5
46	1.9
47	3.8
48	1.7
IC802	
1	1.3
2	3.2
3	5.1
4	2.5
5	0
6	1.8
7	2.5
8	0
9	0
10	0
11	5.1
12	0
13	5.1
14	0
15	4.7
16	4.7
17	0
18	0
19	2.5
20	5.1
21	0
22	2.9
23	2.9
24	3.5
25	3.8
26	0
27	0.3
28	1.7
IC803	
1	9
2	0
3	4.7
Q101	
E	3.7
C	8.7
B	4.5
Q105	
E	3.2
C	8.7
B	3.9
Q301	
E	4.6
C	9
B	5.2

MODE PIN NO.	DC (V)
Q311	
E	4.6
C	9
B	5.2
Q321	
E	4.6
C	9
B	5.2
Q331	
E	4.6
C	9
B	5.2
Q341	
E	4.6
C	9
B	5.2
Q505	
E	0
C	6.5
B	0
Q651	
E	0
C	0
B	-0.2
Q652	
E	0
C	0
B	-0.2
Q653	
E	0.3
C	-0.1
B	0
Q801	
E	2.6
C	0
B	2
Q802	
E	2.7
C	0
B	2.1
Q851	
E	2
C	9
B	2.7
Q853	
E	1.6
C	0
B	1
Q854	
E	2.8
C	9
B	3.4
Q855	
E	2
C	0
B	1.4
Q858	
E	3.1
C	9.6
B	3.7
Q859	
E	2.1
C	0
B	1.5
Q862	
E	1
C	4.1
B	1.6
Q863	
E	3.4
C	5.1
B	4.1

IC801-1	IC801-3	IC801-4	IC801-5	IC801-7	IC801-9	IC801-11	IC801-21	IC801-22	IC801-23	IC801-38	IC801-46	IC802-7	IC802-19	IC802-25	IC802-27	IC101-30	IC101-41	IC101-44	IC101-56	IC101-63
(H)	(H)	(V)	(H)	(H)	(H)	(H)	(H)	(H)	(H)	(0.2µs)	(2µs)	(H)	(2µs)	(H)	(H)	(H)	(H)	(H)	(H)	(H)
1 Vp-p	2 Vp-p	5 Vp-p	0.8 Vp-p	0.4 Vp-p	4.2 Vp-p	0.8 Vp-p	0.6 Vp-p	0.6 Vp-p	0.6Vp-p	0.4 Vp-p	0.8 Vp-p	0.4Vp-p	0.4 Vp-p	1.6 Vp-p	1.1 Vp-p	1 Vp-p	1 Vp-p	2 Vp-p	2 Vp-p	1 Vp-p

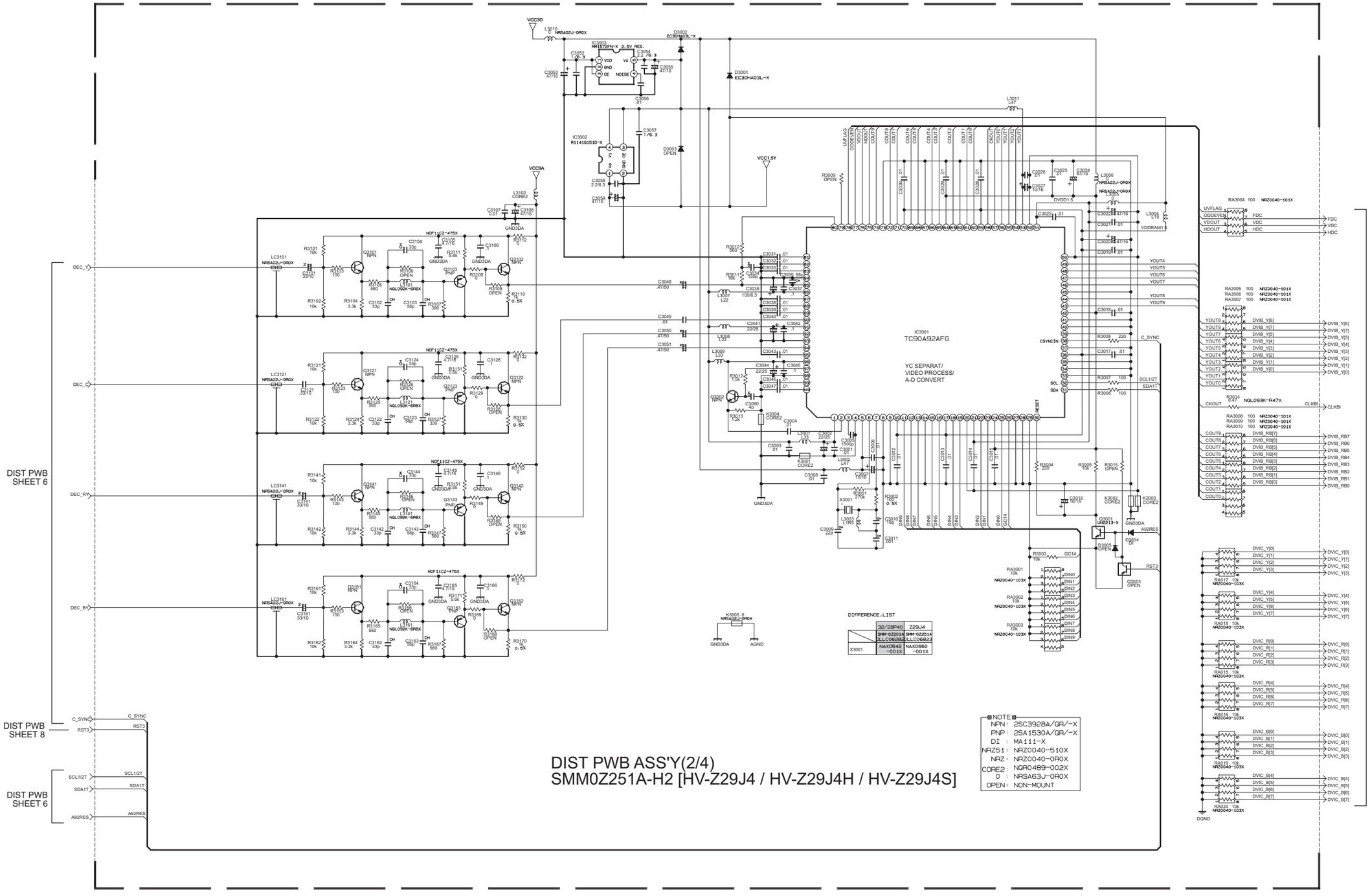
DIST PWB CIRCUIT DIAGRAM (1/4) SHEET 6



MODE PIN NO.	DC (V)
IC005	
1	2.9
2	2.9
3	0
4	4.8
5	5.1
IC013	
1	0.2
2	0
3	0.1
4	0
5	0
6	2.3
7	0.2
8	3
IC213	
1	1.6
2	0
3	1.4
4	0
5	1.5
6	3
7	3
8	3
QB003	
1	0
2	0.5
3	0.1
4	0
5	0.5
6	0.1
QB007	
1	0
2	0.5
3	0.1
4	0
5	0.5
6	0.4
QB010	
1	0
2	0.5
3	0.1
4	0
5	0
6	0.4
QG011	
E	3
C	7.9
B	3.7
QB012	
E	8.6
C	3
B	7.9
QB014	
E	3.7
C	0
B	3
QB015	
E	0
C	9
B	1.4
QB017	
1	0
2	0.6
3	0.6
4	0.3
5	0.6
6	0
QB018	
1	0.8
2	0.1
3	0.8
4	1.1
5	0.2
6	1.1
QB019	
E	0
C	0
B	1.1
QB021	
E	3
C	7.9
B	3.7
QB022	
E	8.6
C	3.3
B	7.9
QB024	
E	4
C	0
B	3.3
QB025	
E	1.5
C	9
B	2.1

MODE PIN NO.	DC (V)
QB027	
1	0
2	0
3	0.6
4	0.3
5	0.6
6	0.3
QB028	
1	1.5
2	0.2
3	1.5
4	1.6
5	0.2
6	1.6
QB029	
E	2.3
C	0
B	1.6
QB031	
E	3
C	7.9
B	3.7
QB032	
E	8.6
C	3.3
B	7.9
QB034	
E	4
C	0
B	3.3
QB035	
E	1.5
C	9
B	2.1
QB037	
1	0
2	0
3	0.6
4	0.3
5	0.6
6	0.3
QB038	
1	1.6
2	0.2
3	1.6
4	1.6
5	0.2
6	1.6
QB039	
E	2.3
C	0
B	1.6
Q1717	
E	2.8
C	3.2
B	2.8
Q1718	
E	2.8
C	3.2
B	2.8

DIST PWB CIRCUIT DIAGRAM (2/4) SHEET 7



DIST PWB ASS'Y(2/4)
SMM0Z251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

IC3001-75 (H) 3 Vp-p

IC3001-76 (V) 3 Vp-p

IC3001-85 (H) 0.8 Vp-p

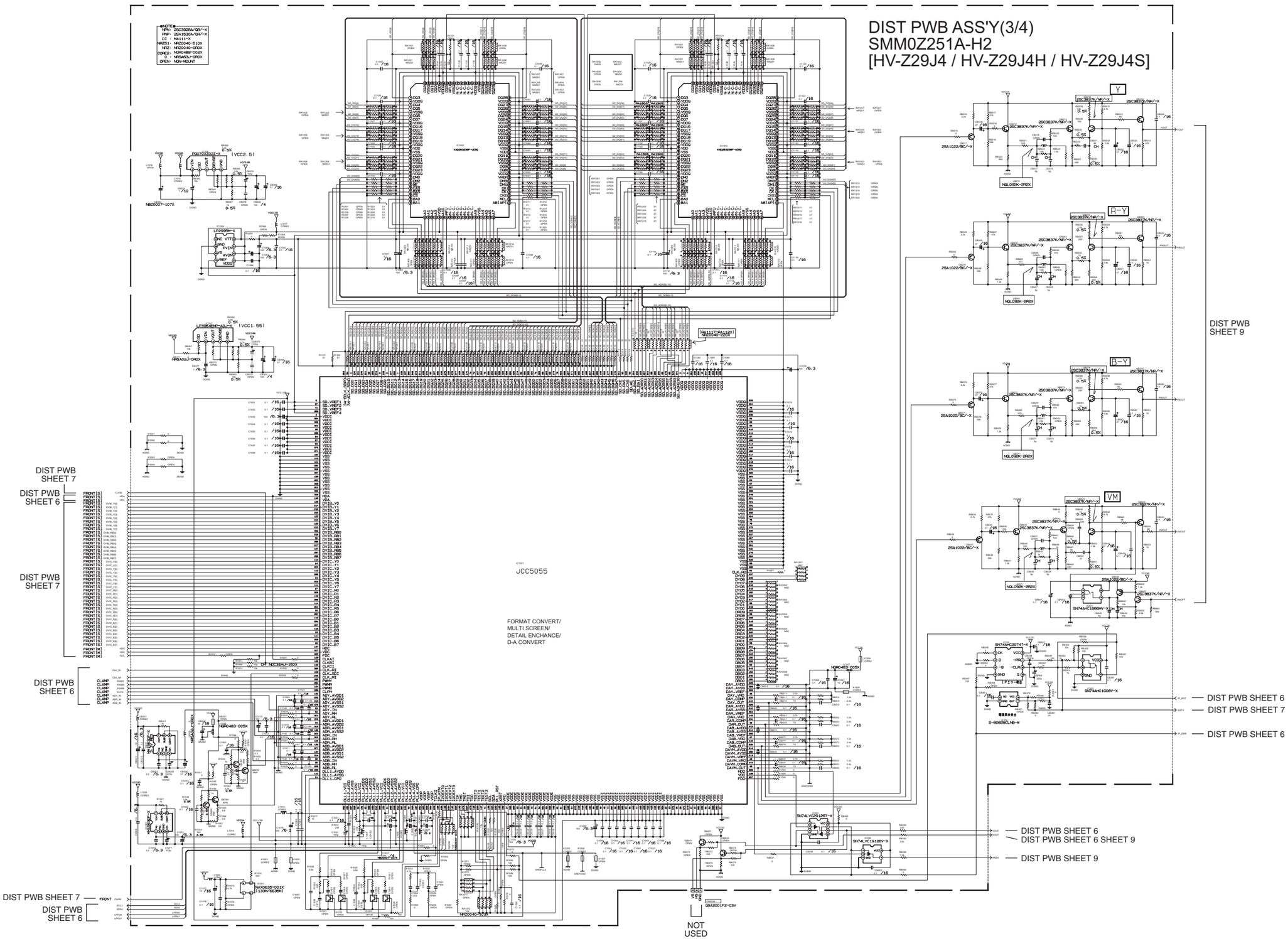
IC3001-92 (H) 0.5 Vp-p

IC3001-94 (H) 0.5 Vp-p

MODE PIN NO.	DC (V)
IC3001	
1	0
2	0
3	1.2
4	0
5	2.9
6	0
7	1.3
8	0
9	0
10	1.4
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	1.4
22	0
23	0
24	2.9
25	0
26	0
27	0
28	0
29	0
30	2.9
31	4.7
32	4.7
33	0
34	0
35	0
36	1.4
37	0
38	0
39	0
40	0
41	0
42	2.9
43	1
44	1
45	0
46	1
47	1.7
48	0
49	0
50	0
51	1.4
52	0
53	2.4
54	1
55	1.1
56	0
57	0
58	1.3
59	1.4
60	0
61	0
62	0
63	1
64	2.9
65	1.1
66	1.1
67	0
68	1.1
69	1.1
70	1.4
71	1
72	0.9
73	0
74	1.8
75	0.1
76	0
77	0
78	1.4
79	NC
80	1.1
81	0.8
82	1.6
83	1.1
84	0
85	1.1
86	2.3
87	0.6
88	0.7
89	1.6
90	1.1
91	2.4
92	1.1
93	0
94	1.1
95	0.6
96	2.4
97	0
98	0
99	1
100	0

MODE PIN NO.	DC (V)
IC3003	
1	3
2	0
3	3
4	1.2
5	2.4
IC3002	
1	1.5
2	0
3	2.4
4	2.4
Q3001	
E	0
C	3.1
B	1.5
Q3002	
E	1.3
C	2.4
B	1.9
Q3101	
E	3.7
C	9
B	4.4
Q3102	
E	1.5
C	9
B	2.1
Q3103	
E	2.1
C	0
B	1.5
Q3121	
E	3.7
C	9
B	4.4
Q3122	
E	1.4
C	9
B	2
Q3123	
E	2
C	0
B	0
Q3141	
E	3.7
C	9
B	4.4
Q3142	
E	1.9
C	9
B	2.5
Q3143	
E	2.5
C	0
B	0
Q3161	
E	3.7
C	9
B	4.4
Q3162	
E	1.8
C	9
B	2.5
Q3163	
E	2.5
C	0
B	1.9

DIST PWB CIRCUIT DIAGRAM (3/4) SHEET 8



MODE PIN NO.	DC (V)
IC1004	
1	0
2	0
3	1.2
4	1.2
5	2.5
6	2.5
7	2.5
8	1.2
IC1005	
1	3.3
2	0
3	0
4	1.9
5	5.1
6	0
7	5.1
IC104	
1	0
2	0
3	0
4	0
5	2.8
6	3.1
7	2.8
8	2.8
IC105	
1	3
2	3
3	0
4	3
5	3
IC106	
1	3
2	3
3	0
4	0
IC107	
1	3.1
2	3.1
3	1.5
4	1.2
5	0
IC108	
1	3.1
2	2.9
3	2.5
4	1.2
5	0
6	2.5
IC205	
1	3
2	0
3	0.1
4	0
5	0.1
6	0
7	3
8	3
IC206	
1	3
2	0
3	0
4	0
5	3
IC301	
1	3.3
2	0
3	0
4	1.8
5	5.1
6	0
7	5.1
IC631	
1	6.1
2	6
3	0
4	0
5	9
QB211	
E	0.9
C	0
B	0.2
QB212	
E	2.5
C	9
B	3.2
QB213	
E	1.4
C	9
B	2.1
QB214	
E	1.7
C	3.2
B	2.4

MODE PIN NO.	DC (V)
QB215	
E	2.4
C	9
B	0
QB241	
E	1.1
C	0
B	0.4
QB242	
E	3.5
C	9
B	4.2
QB243	
E	0
C	0
B	3.5
QB244	
E	0
C	5.9
B	2.4
QB245	
E	5.2
C	0
B	5.9
QB271	
E	1.1
C	0
B	0.4
QB272	
E	3.5
C	9
B	4.2
QB273	
E	2.8
C	0
B	3.5
QB274	
E	1.7
C	6
B	2.4
QB275	
E	5.2
C	9
B	6
QB289	
E	0.7
C	3.3
B	1.3
QB290	
E	1.3
C	0
B	0.7
QB291	
E	0
C	3.3
B	2.8
QB292	
E	2.9
C	0
B	2.2
QB631	
E	1.1
C	0
B	0.4
QB632	
E	3
C	0
B	3.7
QB633	
E	1.5
C	9
B	2.3
QB634	
E	0
C	6.1
B	0
QB635	
E	5.4
C	9
B	6.1
QB636	
E	9
C	0.3
B	9
QB637	
E	0
C	0
B	0

DIST PWB CIRCUIT DIAGRAM (4/4) SHEET 9

DIST PWB ASS'Y(4/4)
SMM0Z251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

DIFFERENCE-LIST

	32/28P40	Z29J4
	SMM-0Z201A DLLC06ZBB	SMM-0Z251A DLLC06BZ5
C1320	10/16	1/50
C1337	0.056/16	0.1/16
C1342	3.3/50	10/16
R1308	33k	4.7k
R1373	560	1k

NOTE
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X
DI : MA111-X
NRZ51 : NRZ0040-510X
NRZ : NRZ0040-0R0X
CORE2 : NQR0489-002X
0 : NRSA63J-0R0X
OPEN : NON-MOUNT

MODE PIN NO.	DC (V)
IC1301	
1	NC
2	0
3	0
4	0
5	0
6	4.7
7	4.7
8	0
9	4.3
10	4.4
11	4.3
12	0
13	0
14	4.4
15	4.4
16	8.9
17	0
18	0
19	3.3
20	0
21	3.3
22	0
23	3.2
24	0
25	3
26	3.5
27	8.9
28	8.9
29	7.5
30	8.9
31	1.9
32	2
33	1.8
34	0.4
35	5.1
36	4.2
37	0
38	5.2
39	0
40	0
41	0
42	0
43	0
44	5
45	0
46	0
47	0.5
48	0
IC1401	
1	NC
2	NC
3	NC
4	0.4
5	0
6	0
7	0
8	0
9	0
10	0
11	NC
12	NC
13	NC
14	3
Q1301	
E	3.9
C	0
B	3.2
Q1302	
E	3.7
C	0
B	3
Q1303	
E	3.9
C	0
B	3.1
Q1304	
E	3.3
C	9
B	4
Q1305	
E	3.1
C	9
B	3.9
Q1306	
E	3.2
C	9
B	4
Q1307	
E	4
C	9
B	3.5
Q1308	
E	3.9
C	9
B	3.5

MODE PIN NO.	DC (V)
Q1309	
E	4
C	9
B	3.5
Q1312	
E	0
C	0.3
B	0.3
Q1313	
E	0
C	8.5
B	0.3
Q1314	
E	8.2
C	0
B	8.8
Q1315	
E	8.8
C	0
B	8.5
Q1316	
E	0
C	0.7
B	0

IC1301-19 (H) 3.5 Vp-p
IC1301-21 (H) 3.5 Vp-p
IC1301-23 (H) 3.5 Vp-p
IC1301-37 (H) 0.9 Vp-p
IC1301-38 (H) 0.5 Vp-p
IC1301-39 (H) 0.6 Vp-p
IC1301-43 (H) 3 Vp-p
IC1301-46 (H) 0.3 Vp-p
IC1301-47 (H) 4 Vp-p
IC1301-48 (V) 2.4 Vp-p

CRT SOCKET PWB CIRCUIT DIAGRAM SHEET 10

MODE PIN NO.	DC (V)
IC3201	
1	4.3
2	12.0
3	4.2
4	0.0
5	9.3
6	212.0
7	153.5
8	155.0
9	153.1
IC3202	
1	4.3
2	12.0
3	4.2
4	0.0
5	8.9
6	213.0
7	155.0
8	156.0
9	154.0
IC3203	
1	4.3
2	12.0
3	4.2
4	0.0
5	9.0
6	213.0
7	149.0
8	150.0
9	148.0
Q3701	
E	3.3
C	36.1
B	4.0
Q3702	
E	36.9
C	16.4
B	36.1
Q3703	
E	16.0
C	36.9
B	16.4
Q3704	
E	16.0
C	0.0
B	15.8
Q3705	
S	147.9
D	73.2
G	145.1
Q3706	
S	0.0
D	73.1
G	1.1

NOTE
NPN: 2SD601A/QR/-X
PNP: 2SB709A/QR/-X
DI : MA111-X
BW : BUS WIRE
OPEN: NON-MOUNT

IC3203 TDA6111Q B-OUT
HS3203 LC31150-002A
IC3202 TDA6111Q R-OUT
HS3202 LC31150-002A
IC3201 TDA6111Q G-OUT
HS3201 LC31150-002A

CN300E WJK0164-001A
DIST PWB SHEET 9
CN300A GGA2501C5-04Z
CN300J GGA2501C5-05Z
POWER & DEF PWB SHEET 11

SK3001 GNZ0534-001
V01 A68QCU270XV4N
CN30E1 CE41507-001P
LINE FILTER PWB SHEET 14
CN30SC GGZ0017C1-01Z
POWER & DEF PWB SHEET 11
CN30VM WJM004B-002A

CRT SOCKET PWB ASS'Y
SMM-3251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

IC3201-8 (H) 90Vp-p
IC3202-8 (H) 100 Vp-p
IC3203-8 (H) 110 Vp-p

POWER & DEF PWB CIRCUIT DIAGRAM SHEET 11

FRONT CONTROL PWB SHEET16

MAIN PWB SHEET 3

MAIN PWB SHEET 2

DEF OSC PWB SHEET 12

DEF OSC PWB SHEET 12

CRT SOCKET PWB SHEET 10

DEF OSC PWB SHEET 12

CRT SOCKET PWB SHEET 10

FOR TEST

EHT PWB SHEET 13

LIVE(⊥)

ISOLATED(⏚)

DIFFERENCE LIST

	QMM-2252/QMM-2251/ALL0727/ALL0728	QMM-2252/QMM-2251/ALL0728
R901	OPEN	QFF154K -681-
L901	QQR1036 -100-	OPEN
R915	QFF154K -681-	QFF154K -680-
C915	OPEN	QEZ0649 -337-
C906	QEZ0476 -337-	QEZ0649 -337-

- NOTE
  - BW : IM-BW
  - OPEN : NO MOUNT
  - *1 : KTC3199/YG/-T
  - *2 : KTA1267/YG/-T
  - *3 : 1SS133-T2
  - RGP10J-RGP10J-04TS-T3

POWER & DEF PWB ASS'Y
SMM-2251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

IC401-3 (V) — 80 Vp-p

IC401-6 (V) — 1 Vp-p

IC401-8 (V) — 30 Vp-p

IC401-9 (V) — 3.2 Vp-p

IC401-10 (V) — 60 Vp-p

Q502-B (H) — 1.5 Vp-p

Q502-C (H) — 20 Vp-p

Q522-B (H) — 2 Vp-p

Q522-C (H) — 1300 Vp-p

T701-1 (H) — 75 Vp-p

T701-4 (H) — 600 Vp-p

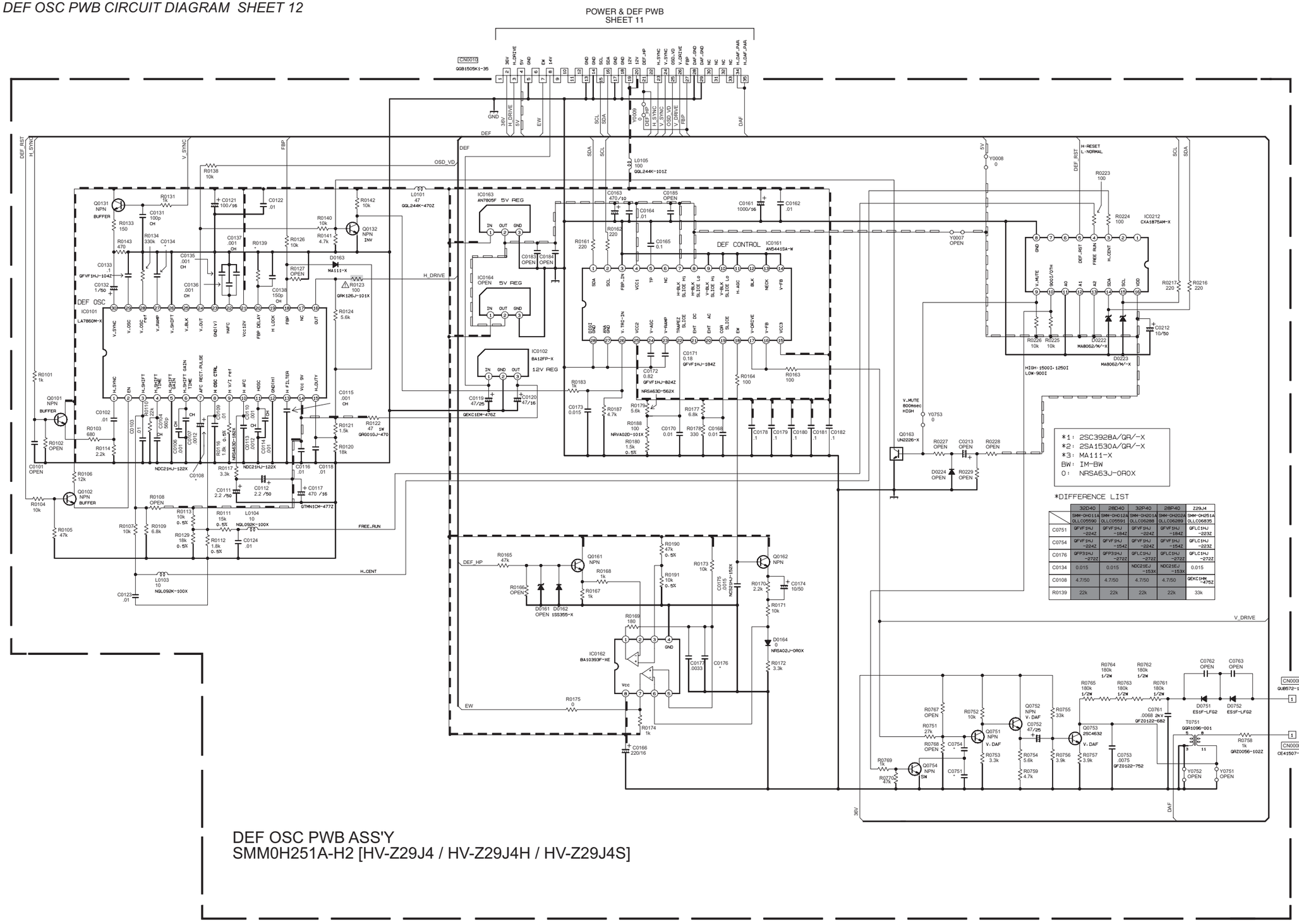
T701-7 (H) — 130 Vp-p

T701-9 (H) — 125 Vp-p

T701-11 (H) — 25 Vp-p

MODE PIN NO.	DC (V)
IC401	
1	NC
2	-14.5
3	0.1
4	14.6
5	2.3
6	2.3
7	14.5
8	-12.3
9	14.7
10	-12.2
IC901	
1	2.5
2	0.0
3	313.0
4	19.2
5	0.0
IC951	
1	141.0
2	141.0
3	0.0
PC901	
1	142.5
2	141.5
3	0.0
4	2.7
Q401	
E	0.2
C	12.0
B	-0.9
Q402	
E	0.0
C	1.7
B	0.0
Q461	
E	10.5
C	12.0
B	10.8
Q462	
E	10.5
C	0.1
B	10.8
Q463	
S	0.0
D	16.1
G	10.3
Q501	
E	4.3
C	12.0
B	3.2
Q502	
E	0.0
C	9.4
B	0.0
Q522	
E	0.0
C	146.0
B	0.0
Q523	
E	1.7
C	12.0
B	1.8
Q551	
S	0.0
D	242.0
G	1.6
Q553	
E	2.6
C	12.0
B	2.4
Q554	
E	2.6
C	0.0
B	2.4
Q941	
E	0.0
C	4.8
B	0.0
Q942	
E	4.8
C	0.0
B	4.8
Q943	
E	0.0
C	1.1
B	0.0
Q951	
E	148.0
C	0.0
B	147.8
Q952	
E	0.0
C	15.2
B	0.0
Q953	
E	0.0
C	0.2
B	0.7
Q954	
E	0
C	3.2
B	0.1

DEF OSC PWB CIRCUIT DIAGRAM SHEET 12

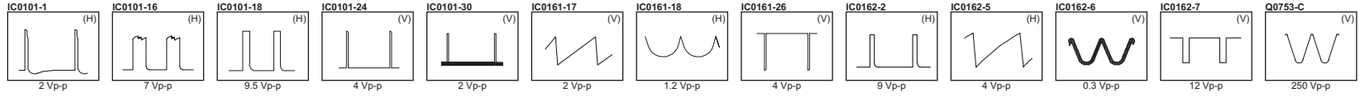


	32D40	28D40	32P40	28P40	Z29J4
	SMM-0H011A OLLC05590	SMM-0H012A OLLC05591	SMM-0H201A OLLC05289	SMM-0H202A OLLC05289	SMM-0H251A OLLC06835
C0751	QFVF1HJ -224Z	QFVF1HJ -184Z	QFVF1HJ -224Z	QFVF1HJ -184Z	QFLC1HJ -223Z
C0754	QFVF1HJ -224Z	QFVF1HJ -154Z	QFVF1HJ -224Z	QFVF1HJ -154Z	QFLC1HJ -223Z
C0176	QFP31HJ -272Z	QFP31HJ -272Z	QFLC1HJ -272Z	QFLC1HJ -272Z	QFLC1HJ -272Z
C0134	0.015	0.015	NDC21EJ -153X	NDC21EJ -153X	0.015
C0108	4.7/50	4.7/50	4.7/50	4.7/50	QEKC1HM -475Z
R0139	22k	22k	22k	22k	33k

MODE PIN NO.	DC (V)
IC0101	
1	4.6
2	0.1
3	0.4
4	7.3
5	0
6	8.1
7	5.3
8	0.2
9	2.1
10	6.4
11	5.8
12	0
13	8.2
14	9
15	8.3
16	3.3
17	NC
18	1.5
19	NC
20	7
21	11.7
22	5.9
23	0
24	0.1
25	NC
26	0
27	1.9
28	6
29	5.3
30	5.8
IC0102	
1	13.9
2	0
3	9
IC0161	
1	4.7
2	4.7
3	0
4	4.9
5	8.9
6	NC
7	4.9
8	4.9
9	0
10	0
11	0
12	NC
13	0
14	0
15	11.7
16	5
17	5
18	3.6
19	0.4
20	NC
21	NC
22	2.5
23	1.2
24	4.3
25	11.7
26	3.4
27	0
28	0
IC0162	
1	2.1
2	1.1
3	2
4	0
5	2.3
6	0.6
7	10.7
8	11.7
IC0163	
1	11.7
2	4.9
3	0
IC0212	
1	NC
2	NC
3	1
4	1.8
5	0.3
6	NC
7	NC
8	0
9	NC
10	0.4
11	0
12	5
13	5
14	4.7
15	4.7
16	5

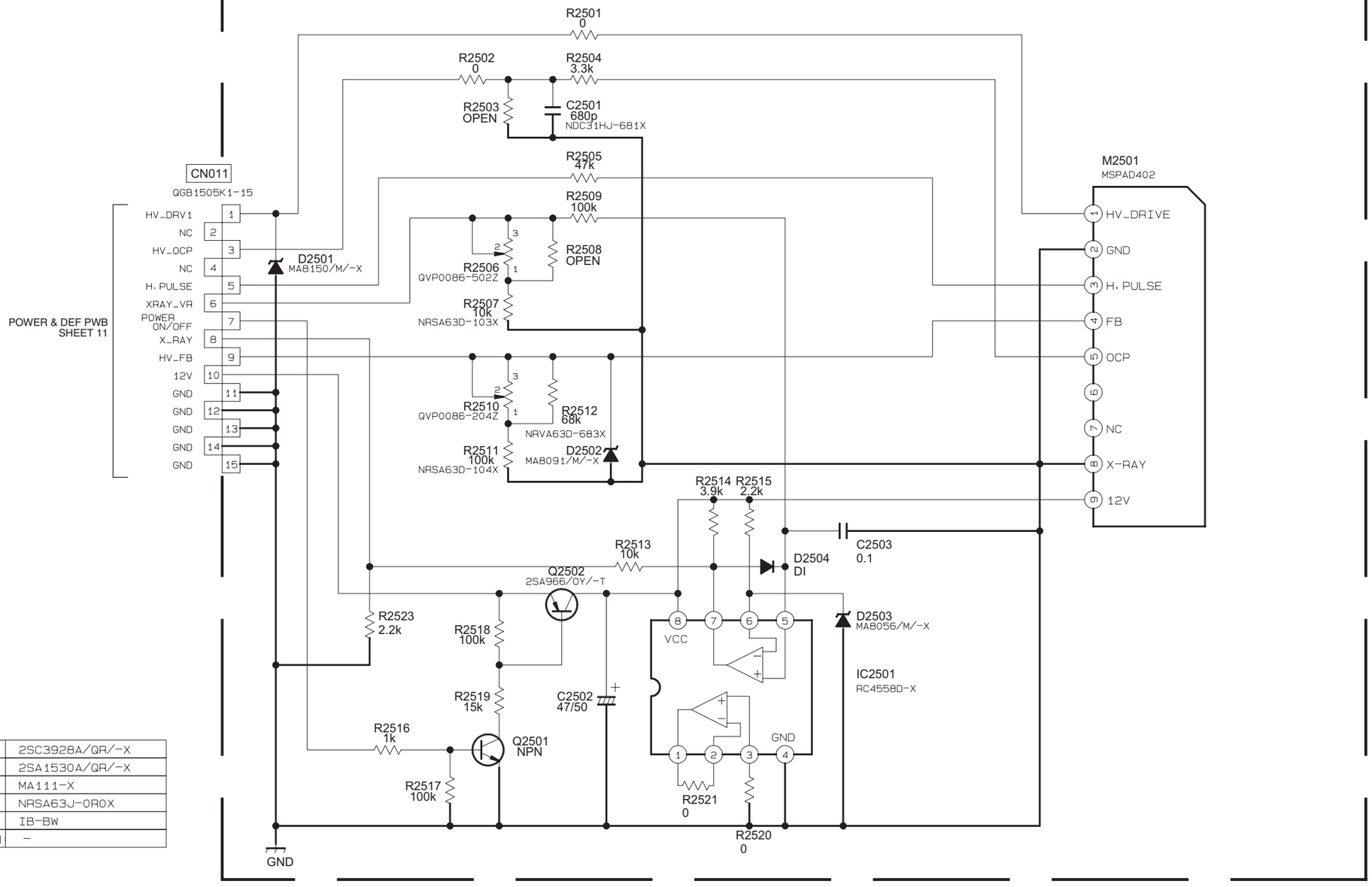
MODE PIN NO.	DC (V)
Q0101	
E	0.1
C	11.7
B	0.1
Q0102	
E	0.1
C	11.7
B	0.2
Q0131	
E	0
C	11.7
B	0
Q0132	
E	0
C	4.1
B	0
Q0161	
E	1.1
C	11.7
B	1.3
Q0162	
E	3
C	11.7
B	3.6
Q0751	
E	4.3
C	24.1
B	4.8
Q0752	
E	23.6
C	37.1
B	24.1
Q0753	
E	3.3
C	460
B	3.8
Q0754	
E	0
C	-0.7
B	-0.1

DEF OSC PWB ASS'Y
SMM0H251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]



EHT PWB CIRCUIT DIAGRAM SHEET 13

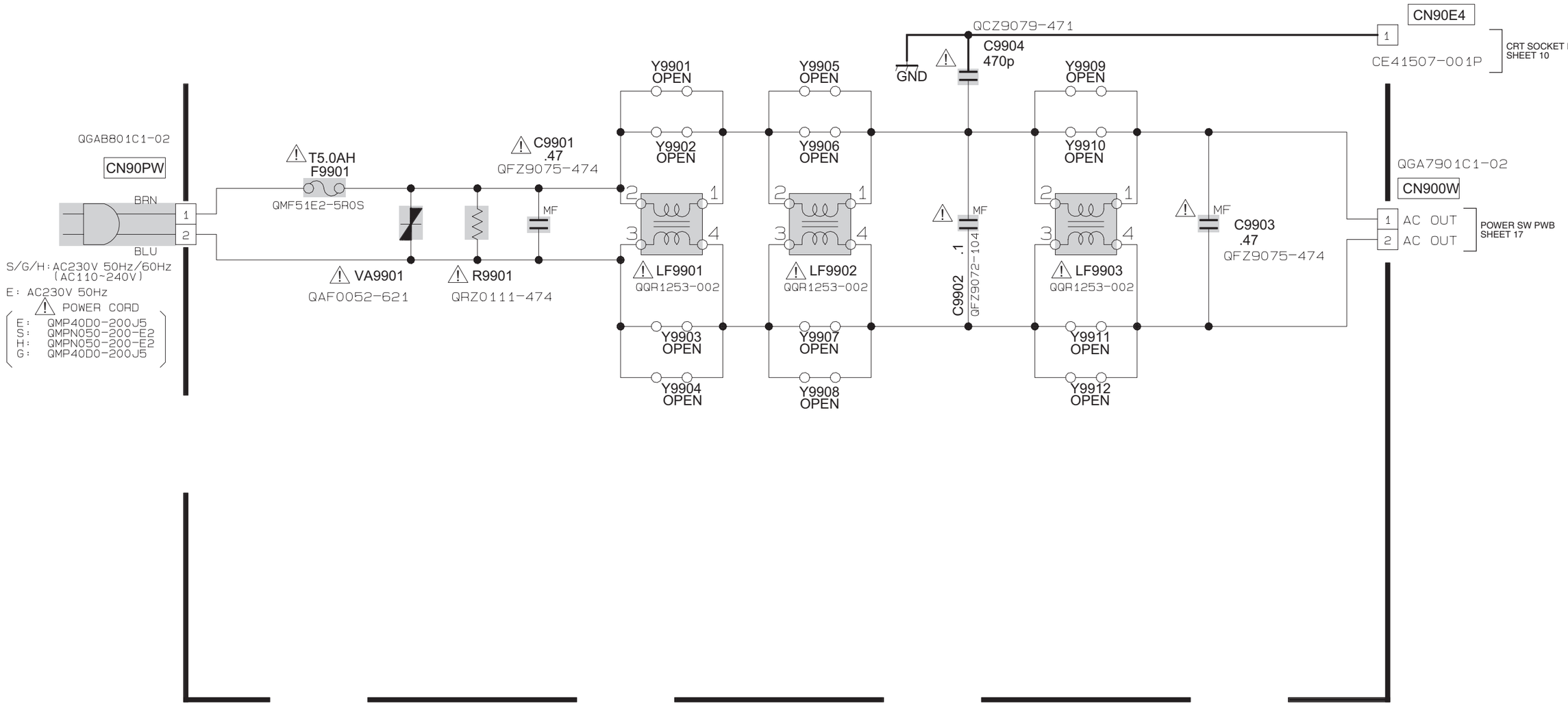
MODE PIN NO.	DC (V)
IC2501	
1	11.8
2	11.8
3	0
4	0
5	12
6	1.8
7	5.8
8	4.9
M2501	
1	3
2	0
3	0.8
4	5
5	0
6	NC
7	NC
8	0
9	12
CN011	
1	3
2	0
3	0
4	0
5	1.6
6	5
7	1
8	0.3
9	5
10	11.9
11	0
12	0
13	0
14	0
15	0
Q2501	
E	0
C	0
B	0.4
Q2502	
E	11.9
C	4.9
B	0



NPN	2SC3928A/QR/-X
PNP	2SA1530A/QR/-X
DI	MA111-X
0	NRSA63J-0R0X
BW:	IB-BW
OPEN	-

EHT PWB ASS'Y
SMM0E251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

LINE FILTER PWB ASS'Y
SMM-9251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]



MICOM PWB ASS'Y
SMM0M251A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

*DIFERENCE_LIST

	32/28P40	Z29J4
	SMM-0M201A 0LLC06283	SMM-0M251A 0LLC06824
R068	47k	82k
R069	47k	100k
R070	OPEN	1k
R071	4.7k	OPEN
C002	OPEN	.01
C025	47p	NCB31HK -333X
C026	OPEN	.1
C032	.1	.01
L002	L47	0
L006	4R7	0
L007	4R7	0
L015	NQL79GM -4R7X	NQL914M -4R7X
L016	NQL79GM -4R7X	NQL79GM -4R7X
K002	NQR0389 -003X	0

NOTE

OPEN : OPTION(NON MOUNT)
NRZ : NRZ0040-0R0X
0 : NRSA63J-0R0X
NPN : 2SC3928A/GR/-X
DI : MA111-X

NOT USED

CN0J1 OPEN

IC004 MBV160T90PT NWV0015-048
OR: SMM-0M201A : MR27T1602F279TN
SMM-0M251A : MR27T1602F280TN

IC003 K4S641632H-UC75 64MB_SD-RAM

IC804 OPEN

IC001 SDA6000-B12 MICRO_COMPUTER

X001 6MHZ NAX0644-001X OR(NAX0618-001X)

Q015 2SK1830-X
Q014 2SK1830-X
Q013 2SK1830-X
Q003 NPN
Q004 UN2213-x
Q001 LMX1N-W
IC002 S-80828CNNB-W
IC191 PQ05_3R2M2-X
D005 RSA6.1L4-W
D004 OPEN
D023 DI

LC001 NQR0415-003X
LC002 NQR0415-003X
K001 39 NRSA63J-390X
LC003 OPEN
LC004 OPEN
LC005 OPEN

CN004 GGB2023L1-30X
CN005 GGB2023L1-30X

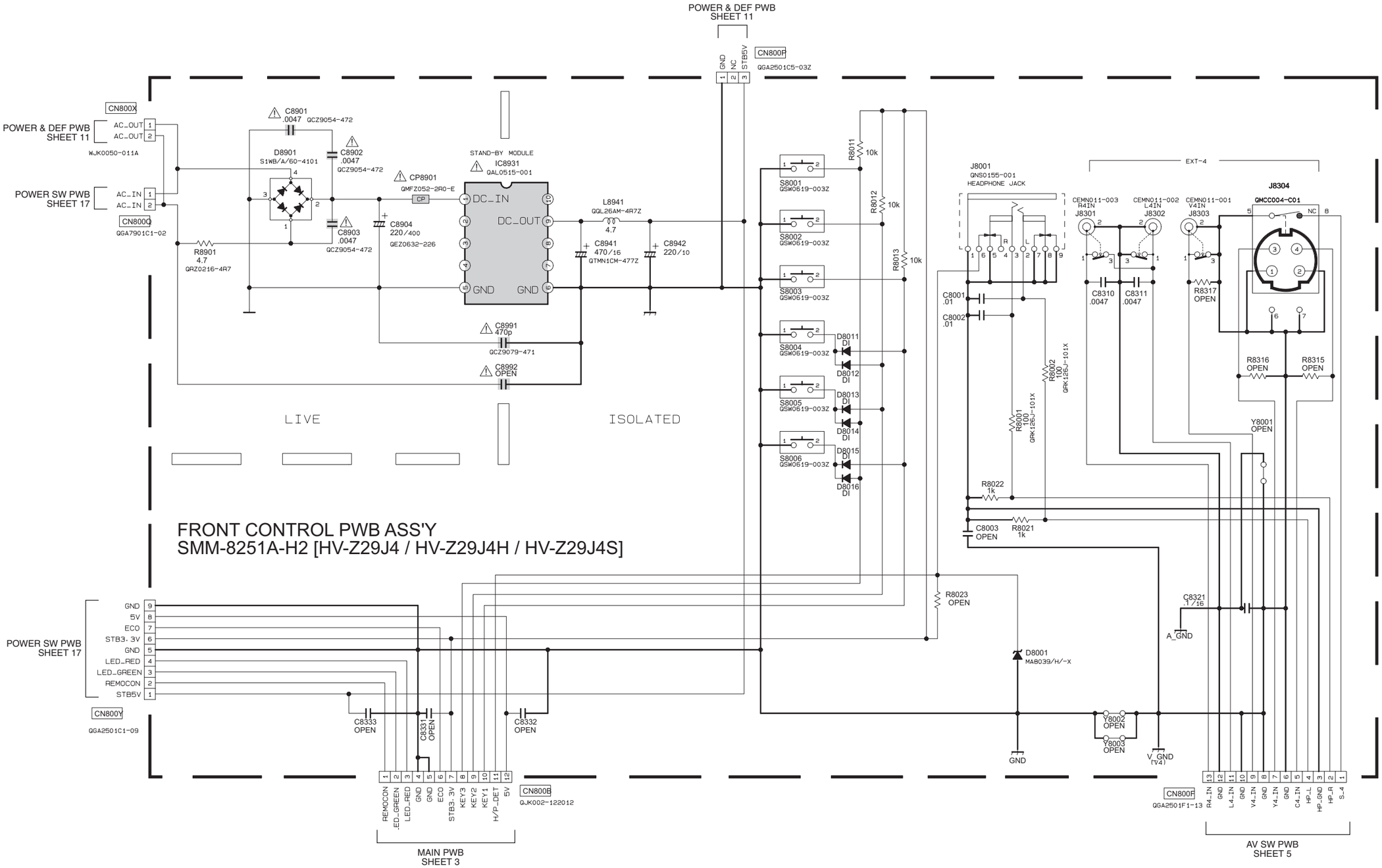
MAIN PWB
SHEET 3

IC001-102 (V) 3 Vp-p
IC001-103 (H) 3.5 Vp-p
IC001-108,109 (0.2µs) 120 Vp-p

MODE PIN NO.	DC (V)
IC001	
1	3.2
2	0.7
3	0.6
4	3.2
5	2.5
6	3.2
7	3.2
8	3.2
9	0
10	0
11	3.2
12	0
13	0
14	3.2
15	0
16	0
17	0
18	0
19	0
20	0
21	2.4
22	0
23	0
24	0.6
25	0
26	0.7
27	0.5
28	0
29	0
30	0.9
31	0
32	3.2
33	2.5
34	2.5
35	1.5
36	1.1
37	0
38	0.8
39	2.9
40	2.6
41	0
42	3.2
43	1
44	2.6
45	3.2
46	3.2
47	3.2
48	0
49	0
50	3.2
51	1.3
52	0
53	0
54	0
55	0
56	0
57	0.9
58	1.5
59	1.5
60	0
61	3.2
62	0
63	0
64	0.9
65	1.9
66	1
67	0.1
68	0
69	3.2
70	0.8
71	0
72	0
73	3.2
74	3.2
75	3.2
76	2.5
77	0
78	0
79	0
80	0
81	3.1
82	3.2
83	0
84	0
85	3.2
86	0
87	2.4
88	0
89	3.2
90	0
91	3.2

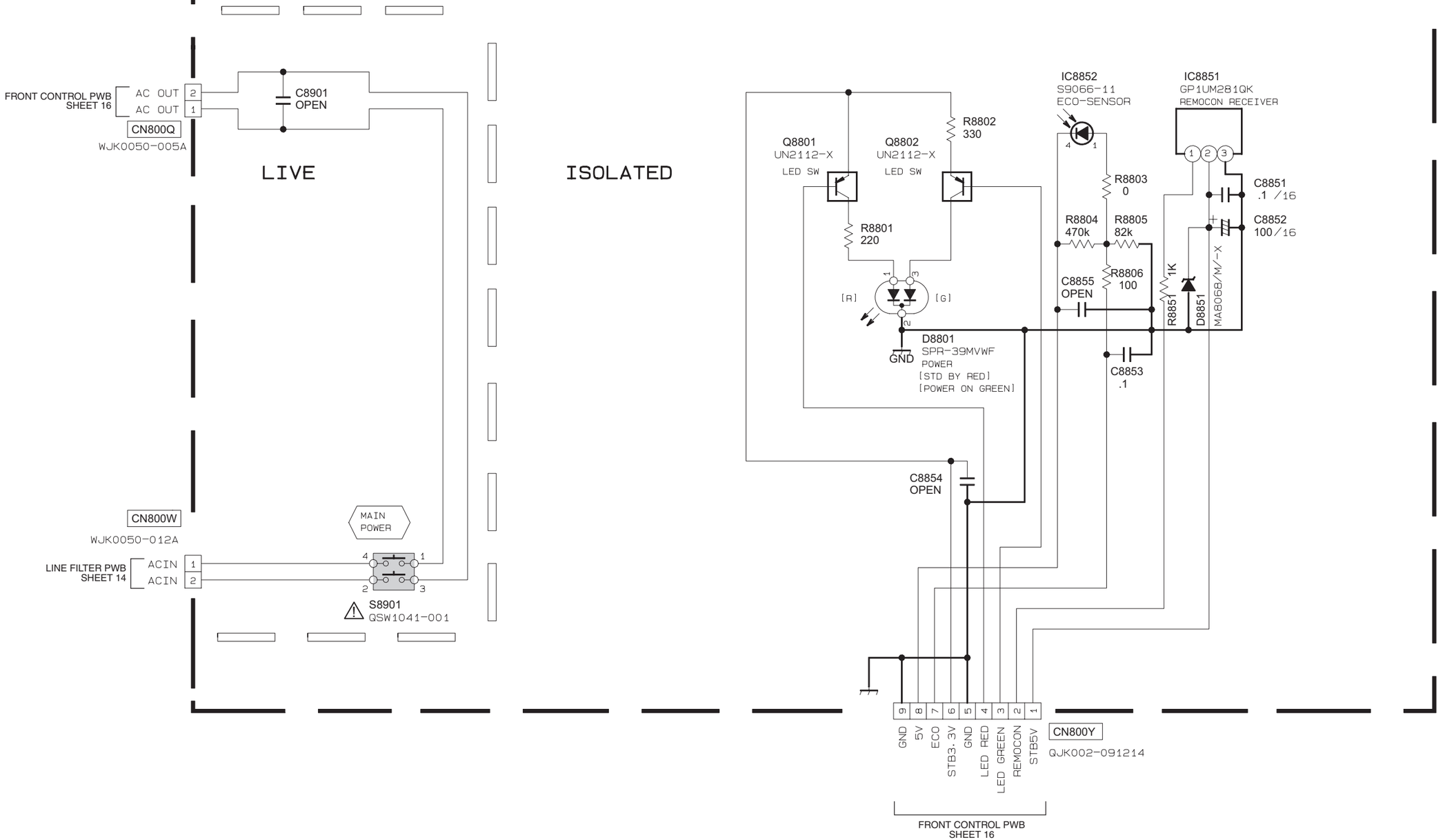
MODE PIN NO.	DC (V)
92	3.2
93	3.2
94	2.3
95	3.2
96	0
97	0
98	3.2
99	3.2
100	0
101	3.2
102	3.1
103	0.3
104	0
105	0
106	3.2
107	0
108	1.3
109	0.4
110	0
111	2.4
112	0.2
113	0.2
114	0.2
115	0
116	3.4
117	0
118	0
119	0
120	0
121	0.8
122	0
123	0
124	1.5
125	1.1
126	2.4
127	2.9
128	0
IC003	
1	3.2
2	0.1
3	3.2
4	1.5
5	0.1
6	0
7	0
8	3.2
9	0.1
10	0
11	0
12	0.1
13	3.2
14	0
15	3.2
16	2.9
17	2.9
18	2.9
19	2.5
20	2.5
21	0
22	0
23	1.2
24	1.2
25	3.2
26	0
27	1.2
28	1.2
29	1.2
30	1.2
31	1.2
32	1.2
33	0
34	0
35	0
36	NC
37	3.2
38	1
39	0
40	NC
41	0
42	0.1
43	3.2
44	0
45	0.1
46	0
47	0.1
48	0.1
49	3.2
50	0.1
51	2.5
52	0
53	2.5
54	0

MODE PIN NO.	DC (V)
IC8931	
1	310
2	NC
3	NC
4	NC
5	0
6	0
7	NC
8	NC
9	4.9
10	NC



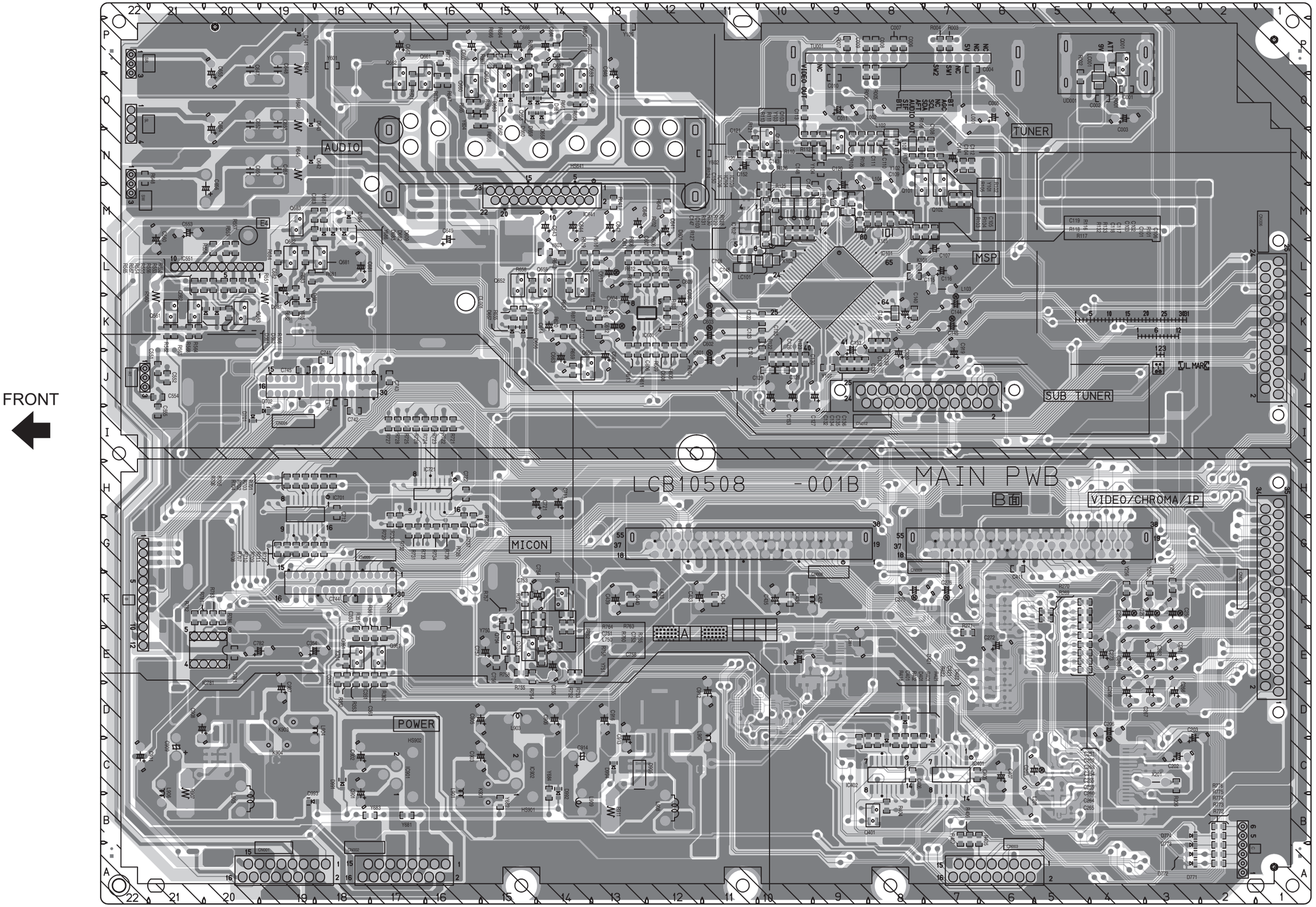
POWER SW PWB ASS'Y
SMM-8951A-H2 [HV-Z29J4 / HV-Z29J4H / HV-Z29J4S]

MODE PIN NO.	DC (V)
IC8851	
1	2.5
2	5
3	0
IC8852	
1	4.4
2	NC
3	NC
4	5.1
Q8801	
E	2.1
C	1.8
B	0.3
Q8802	
E	3.2
C	-5
B	3.2

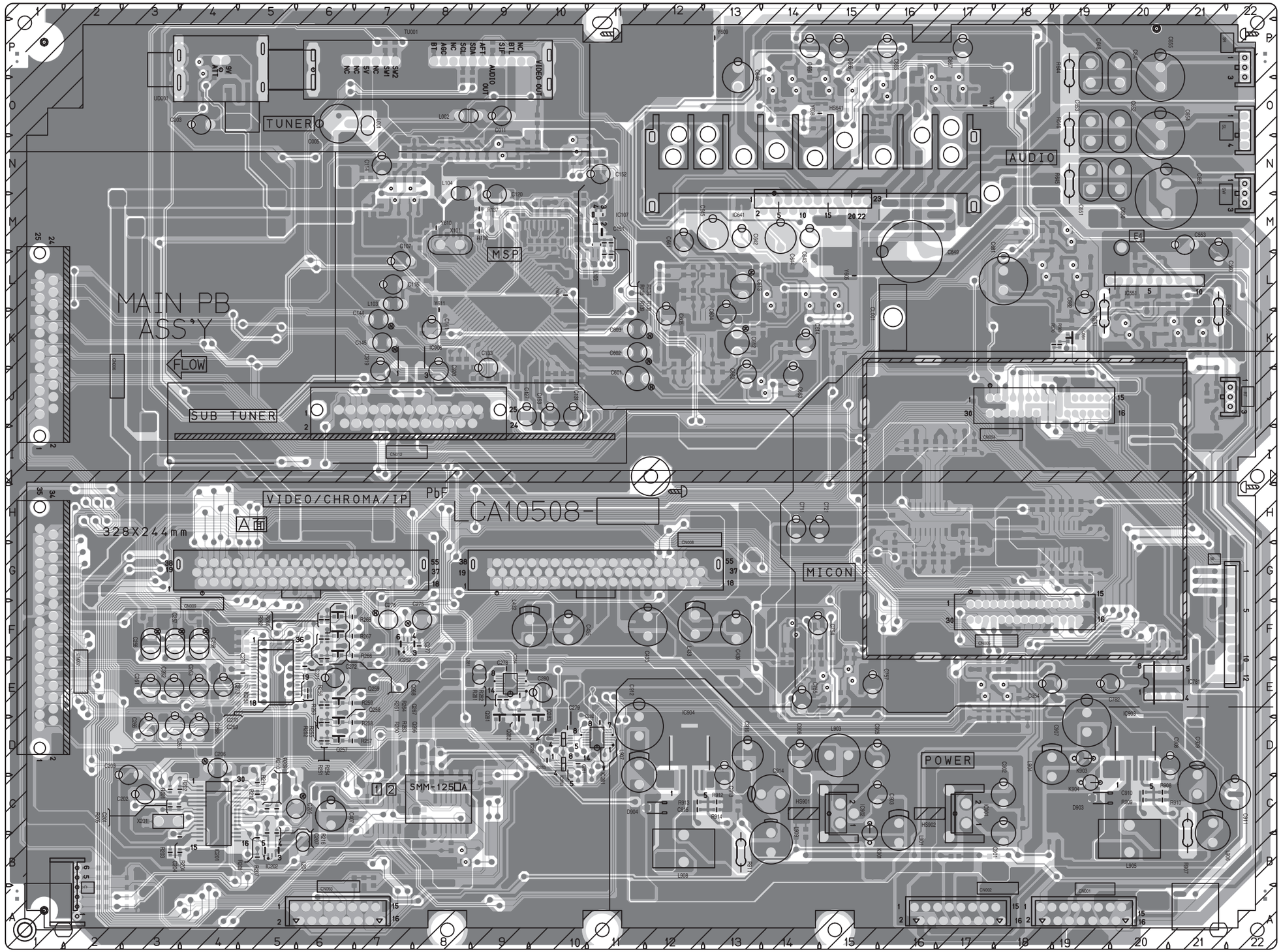


PATTERN DIAGRAMS

MAIN PWB PATTERN [SOLDER SIDE]

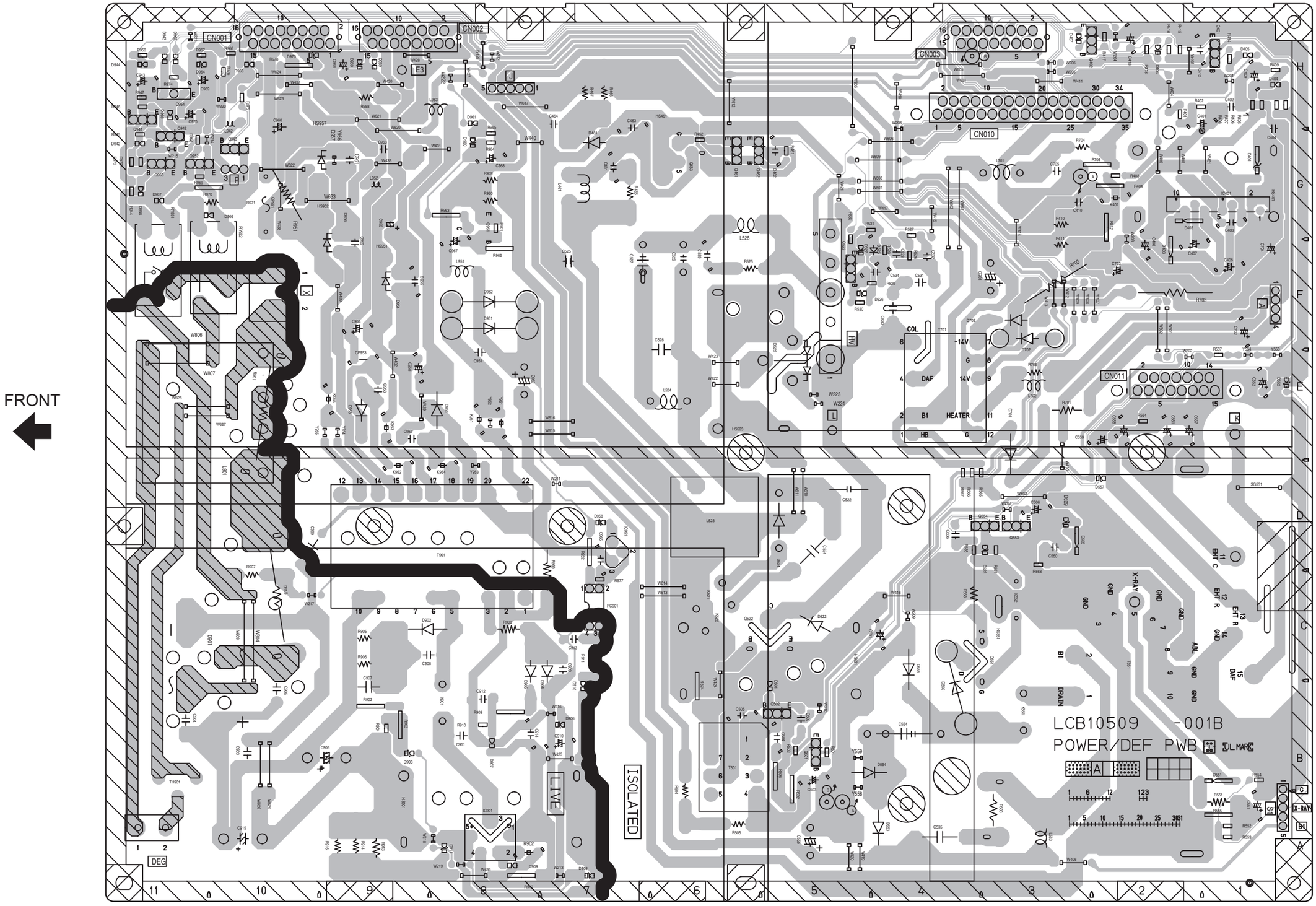


MAIN PWB PATTERN [PARTS SIDE]

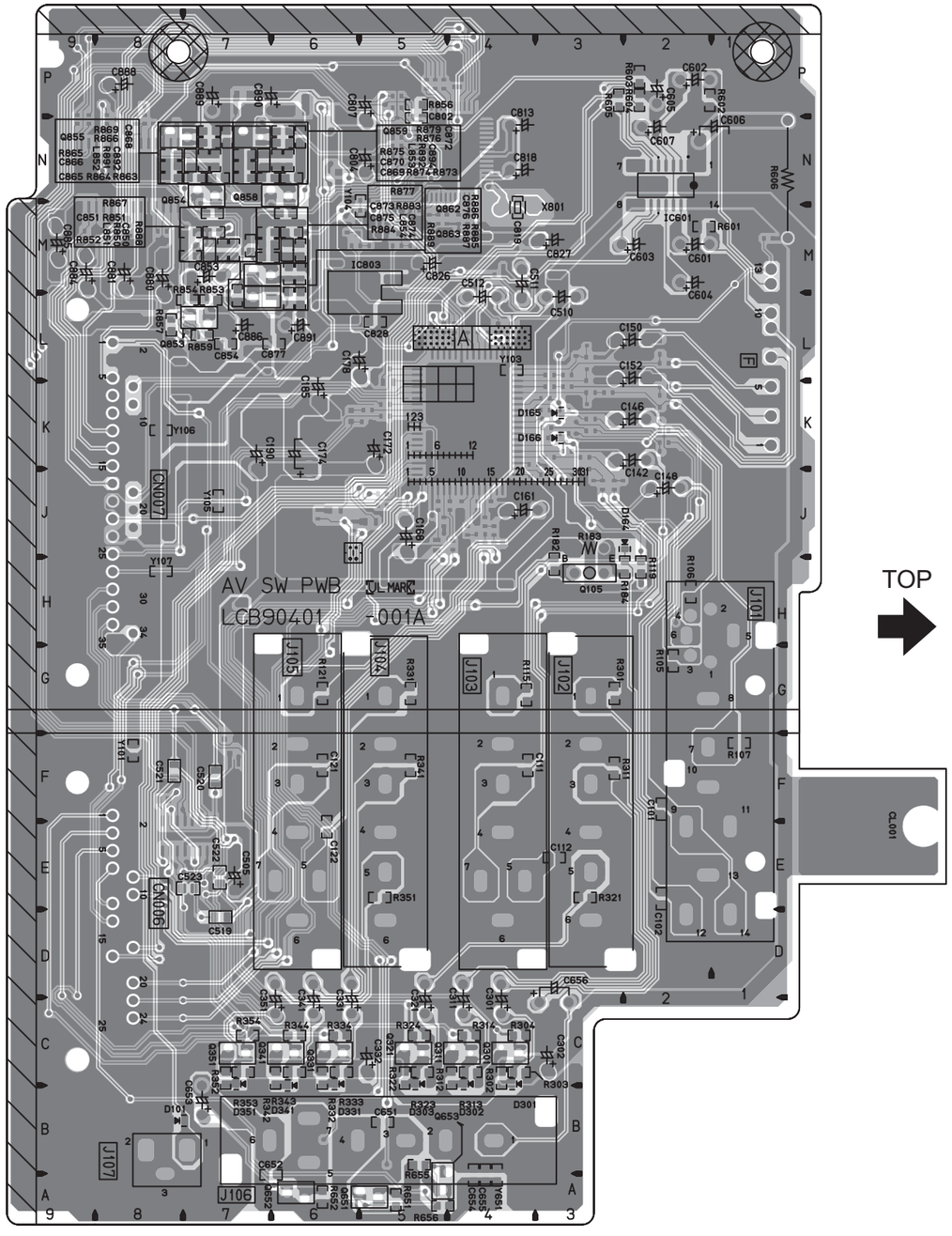


FRONT

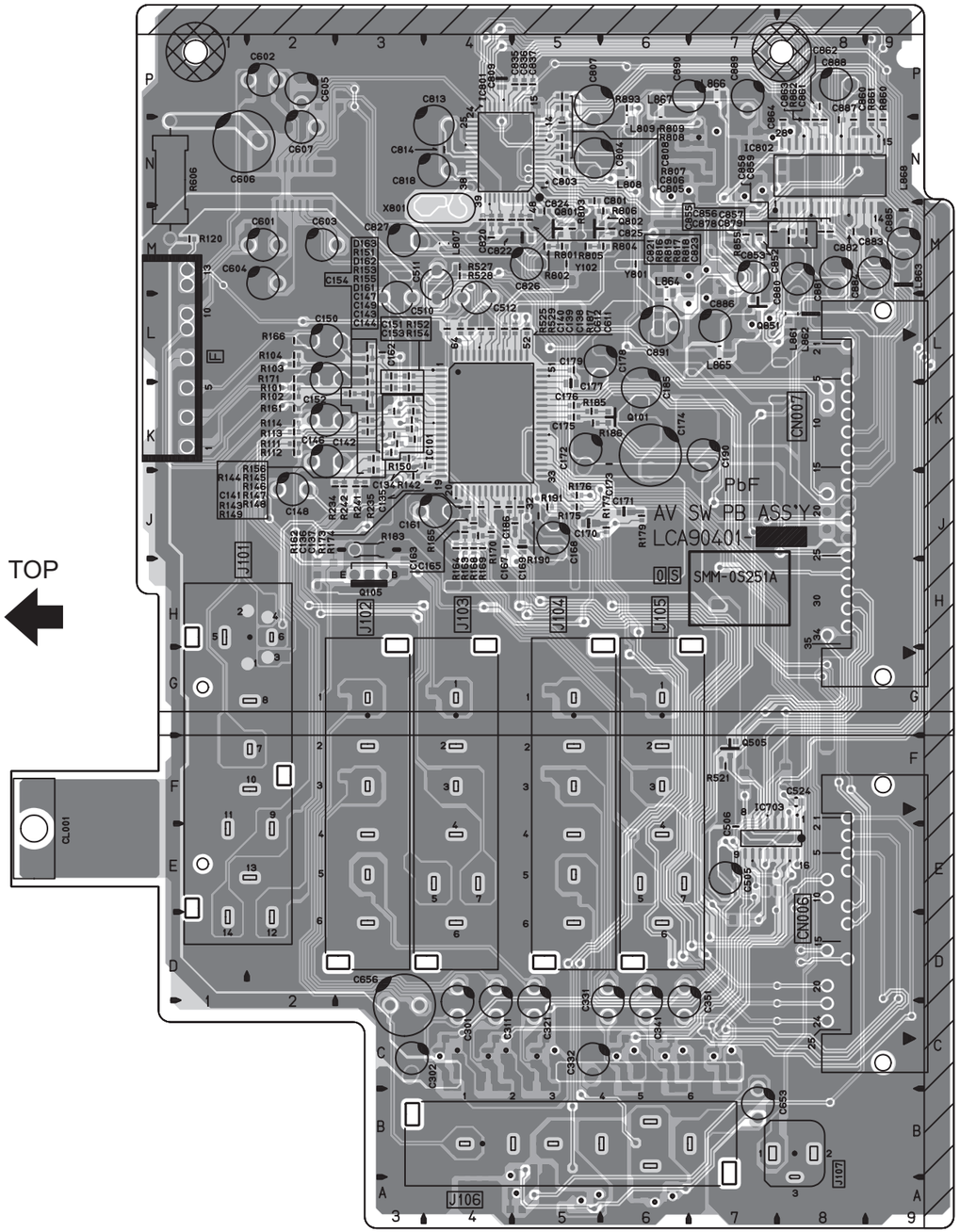
FRONT


CN001
CN002
CN003
CN010
CN011
LCB10509 -001B
POWER/DEF PWB
ISOLATED
LIVE
DEG
HEATER
DAF
DRAIN
X-RAY
ABL
EHT C
EHT R
GND
-14V
14V
COL
HV

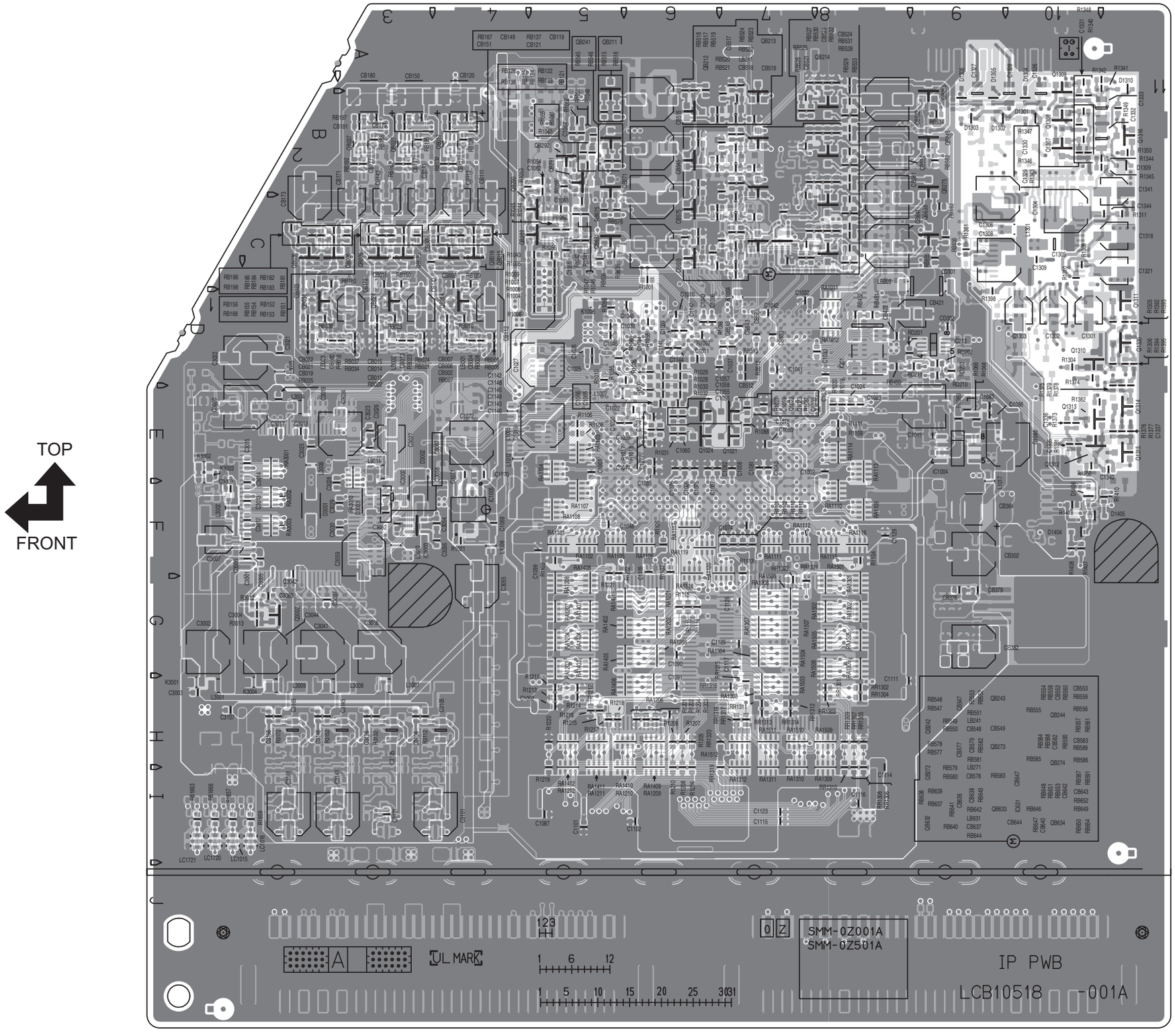
AV SW PWB PATTERN [SOLDER SIDE]



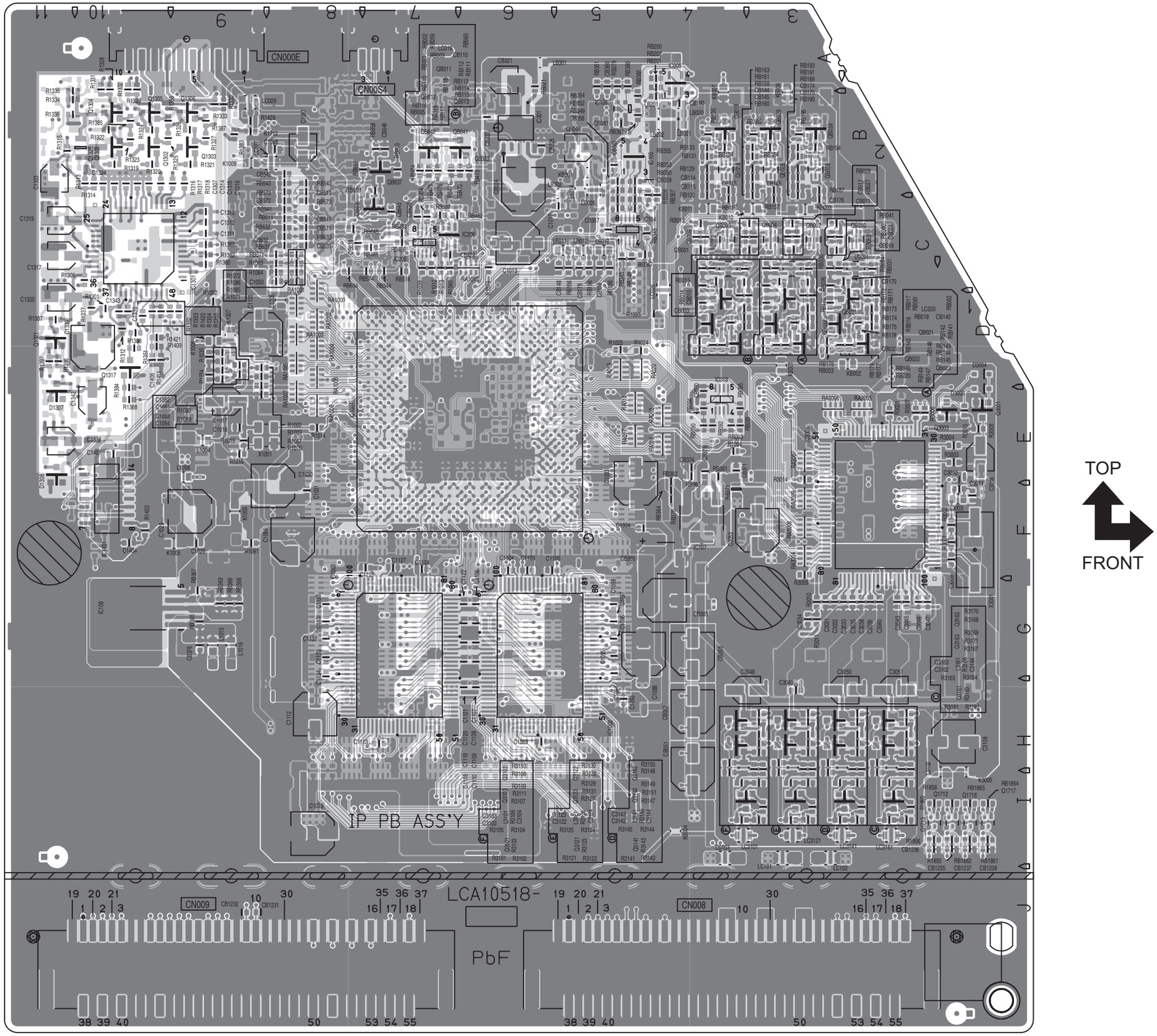
AV SW PWB PATTERN [PARTS SIDE]



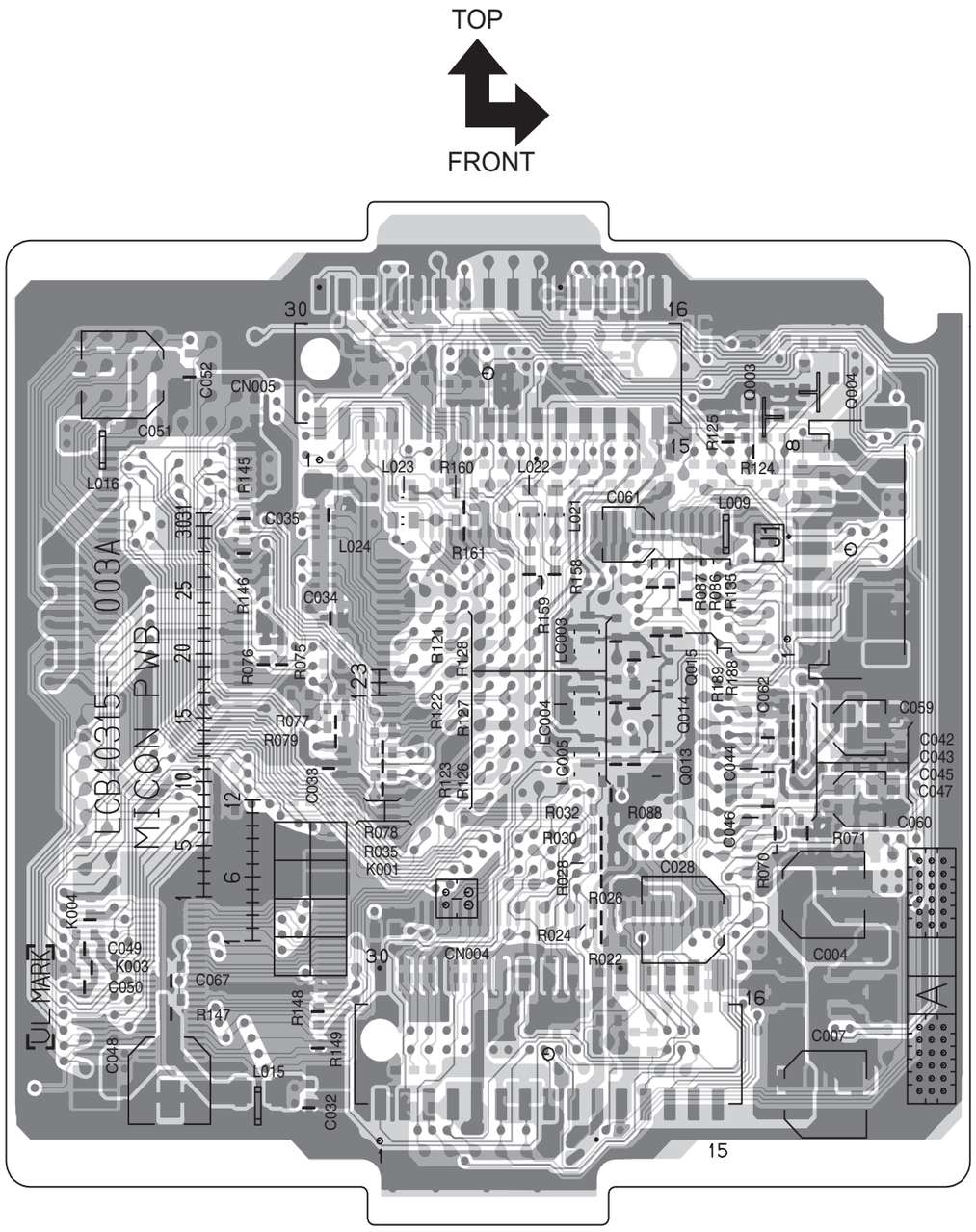
DIST PWB PATTERN [SOLDER SIDE]



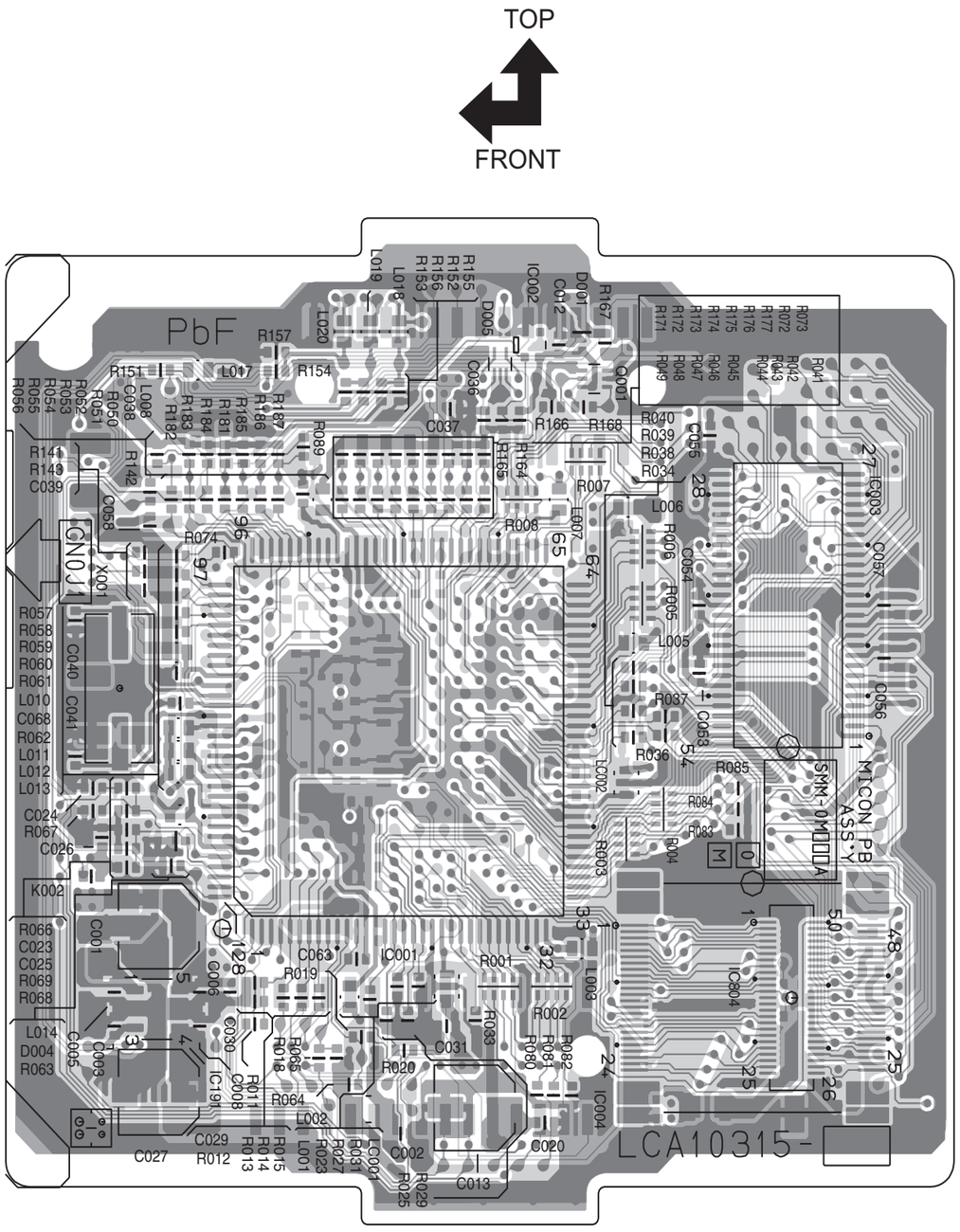
DIST PWB PATTERN [PARTS SIDE]



MICOM PWB PATTERN [SOLDER SIDE]

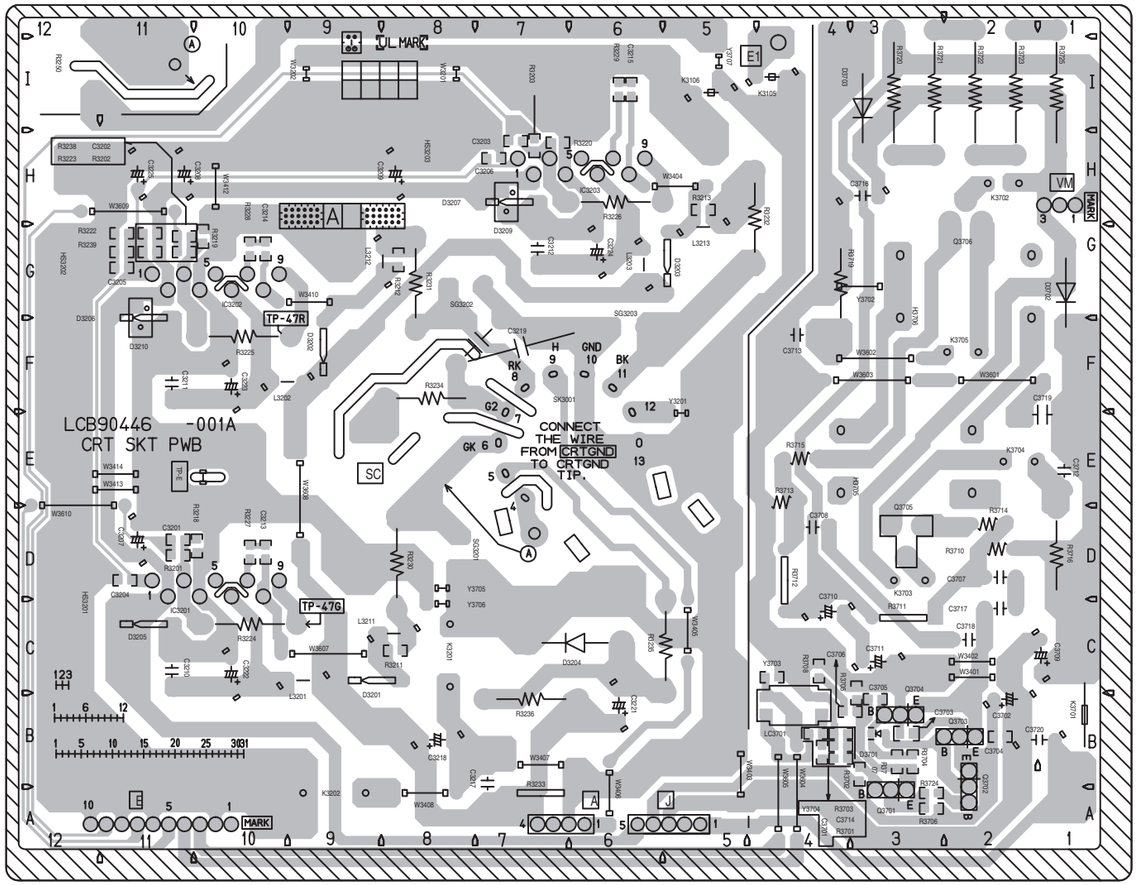


MICOM PWB PATTERN [PARTS SIDE]



CRT SOCKET PWB PATTERN

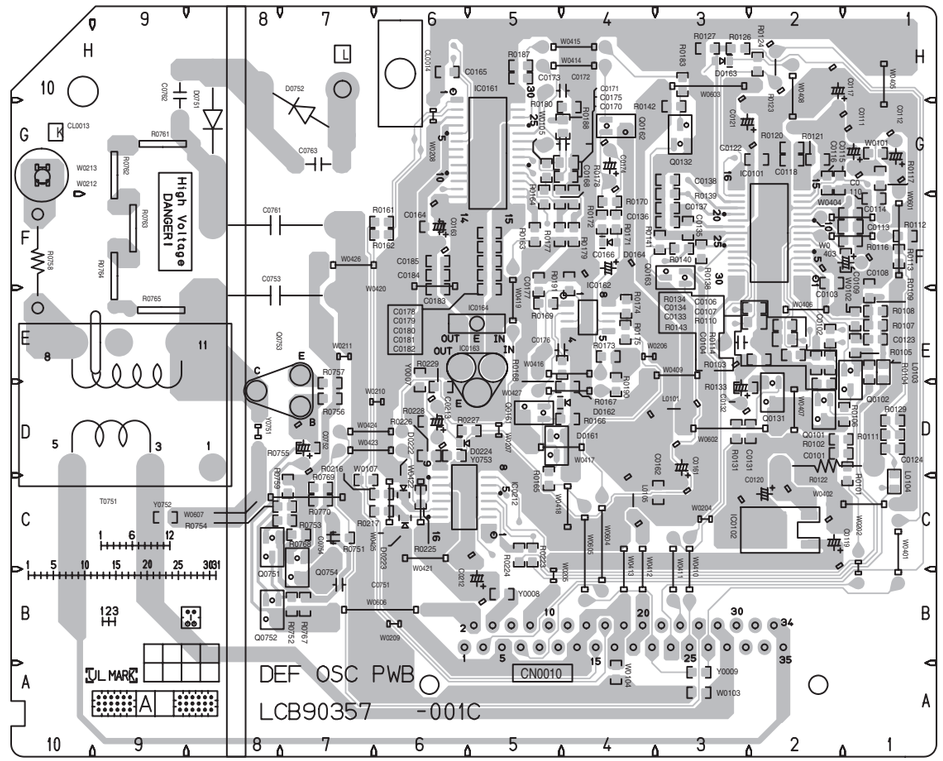
TOP



DEF OSC PWB PATTERN

TOP

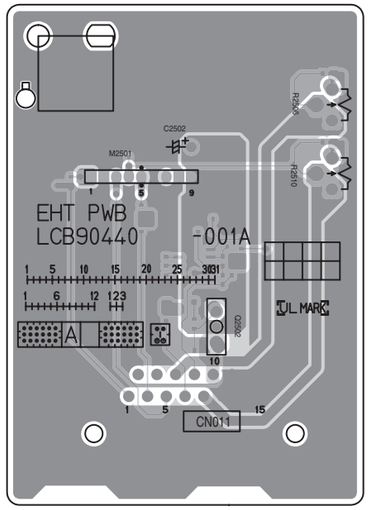
FRONT



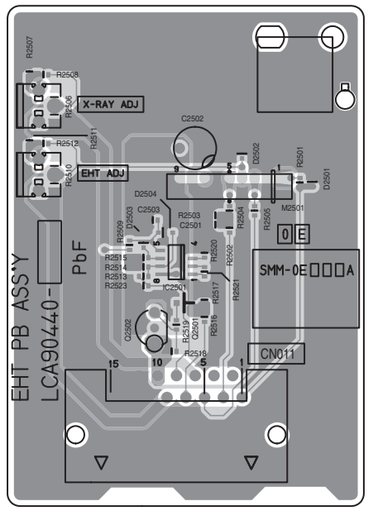
EHT PWB PATTERN [SOLDER SIDE]

TOP

FRONT



EHT PWB PATTERN [PARTS SIDE]

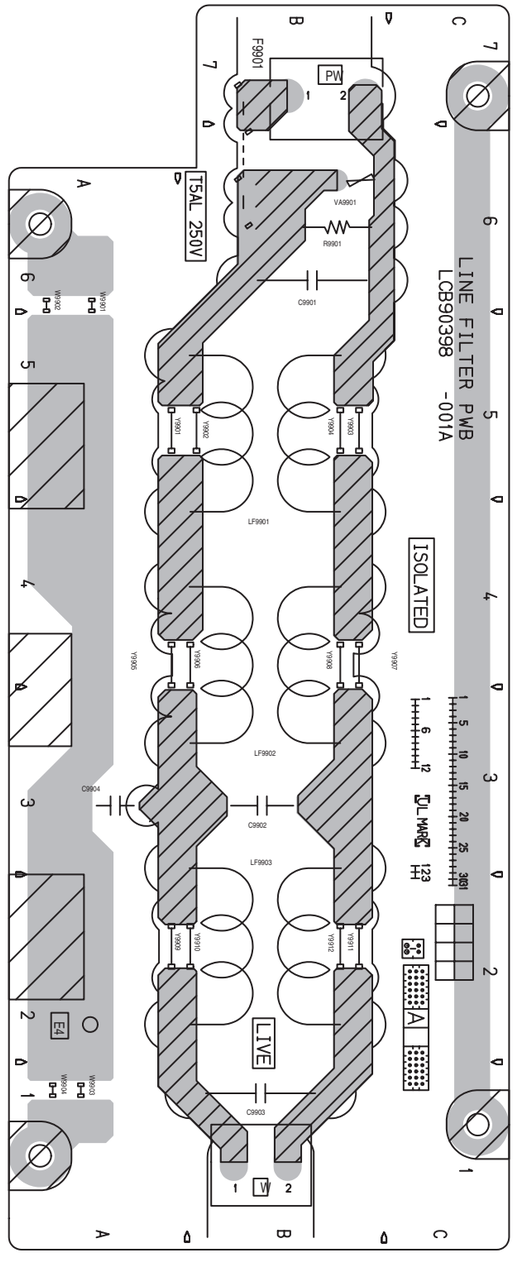


TOP

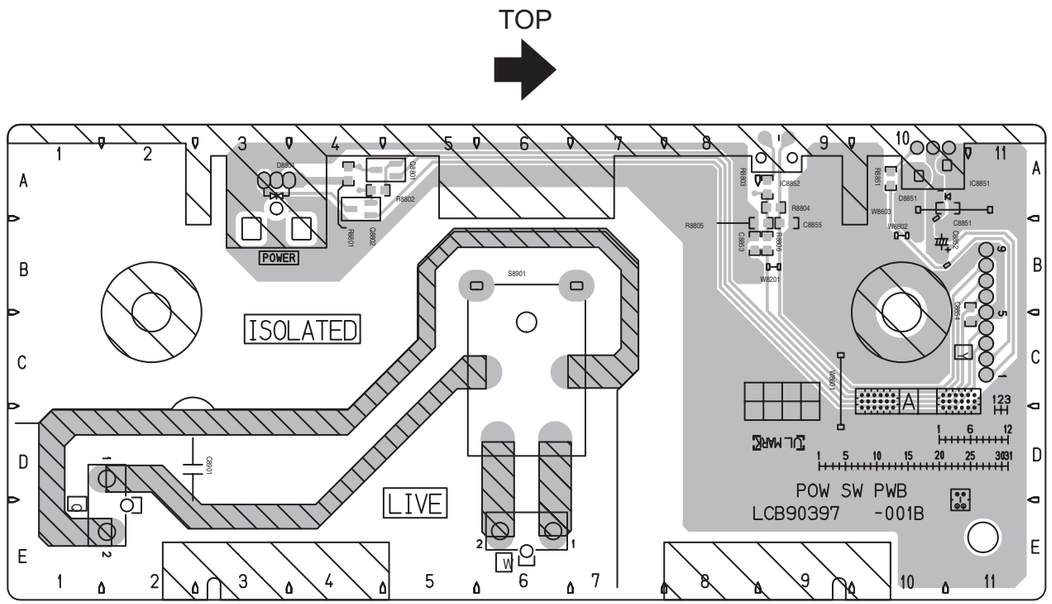
FRONT

LINE FILTER PWB PATTERN

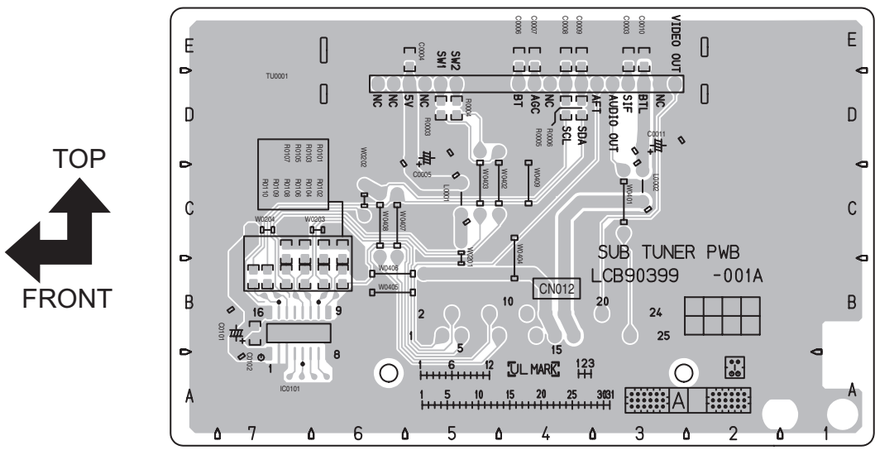
FRONT



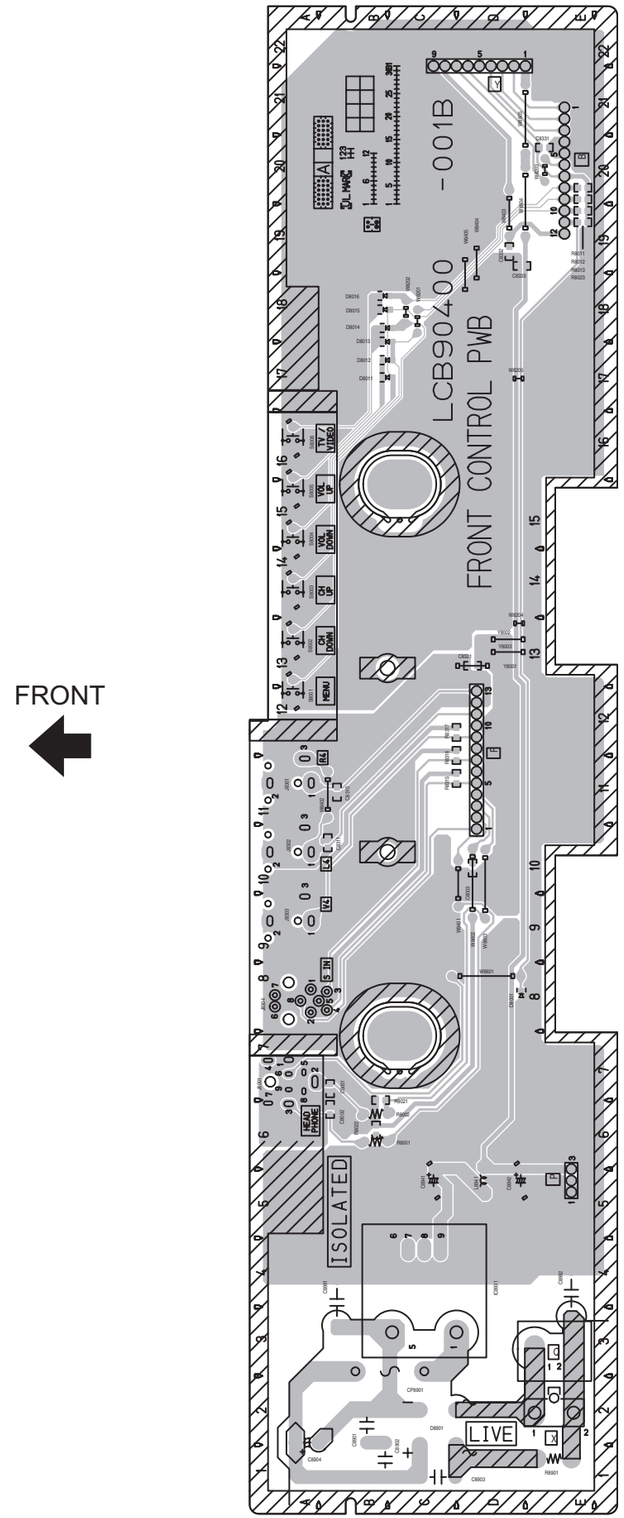
POWER SW PWB PATTERN



SUB TUNER PWB PATTERN



FRONT CONTROL PWB PATTERN



JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YA207)

Printed in Japan
VPT

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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DEF. OSC P.W. BOARD ASS'Y (SMM0H251A-H2) 3-26
MI-COM P.W. BOARD ASS'Y (SMM0M251A-H2) 3-26
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PACKING PARTS LIST 3-27

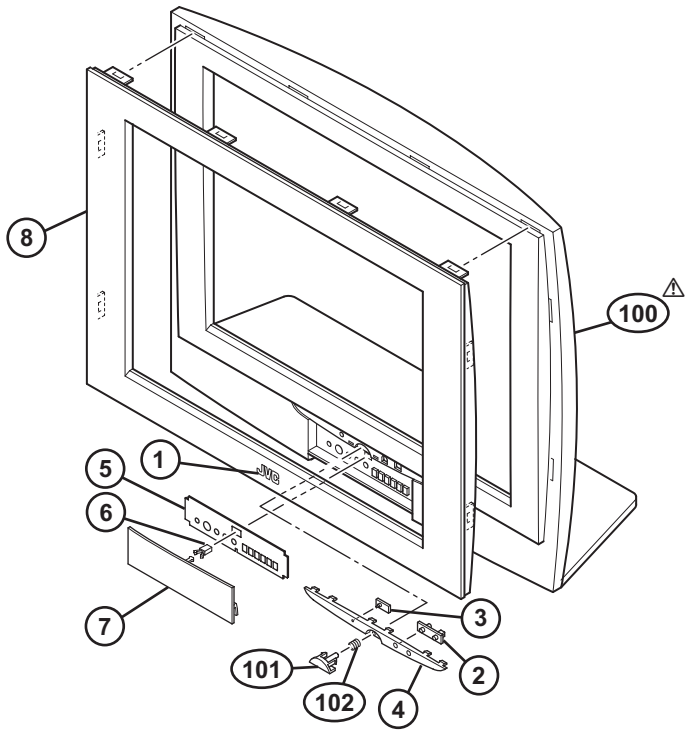
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	HV-Z29J4	HV-Z29J4/H	HV-Z29J4/S
MAIN P.W.B	SMM-1251A-H2	←	SMM-1252A-H2
POWER & DEF P.W.B	SMM-2251A-H2	←	←
CRT SOCKET P.W.B	SMM-3251A-H2	←	←
FRONT CONTROL P.W.B	SMM-8251A-H2	←	←
FRONT SW P.W.B	SMM-8951A-H2	←	←
LINE FILTER P.W.B	SMM-9251A-H2	←	←
EHT P.W.B	SMM0E251A-H2	←	←
DEF. OSC. P.W.B	SMM0H251A-H2	←	←
MI-COM P.W.B	SMM0M251A-H2	←	←
SUB TUNER P.W.B	SMM0R251A-H2	←	←
AV SW P.W.B	SMM0S251A-H2	←	←
DIST P.W.B	SMM0Z251A-H2	←	←
REMOTE CONTROL UNIT	RM-C1851-1C	←	←

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG30109-001A-H	JVC MARK ASSY		
	2	GG30100-001A-H	LED LENS		
	3	GG30099-001A-H	REMOCON LENS		
	4	GG20064-001A-H	CONTROL PANEL		
	5	GG20059-001A-H	OPERATION SHEET		
	6	CM41861-00B	DOOR LATCH		
	7	GG20058-001B-H	DOOR		
	8	GG10280-008A-H	FRONT PANEL		HV-Z29J4,HV-Z29J4/H
	8	GG10275-001A-H	FRONT CABINET		HV-Z29J4/S
⚠	100	GG10278-001C-H	FRONT CABINET ASSY		
	101	GG30098-001A-H	POWER KNOB		
	102	CM35235-009-H	SPRING		

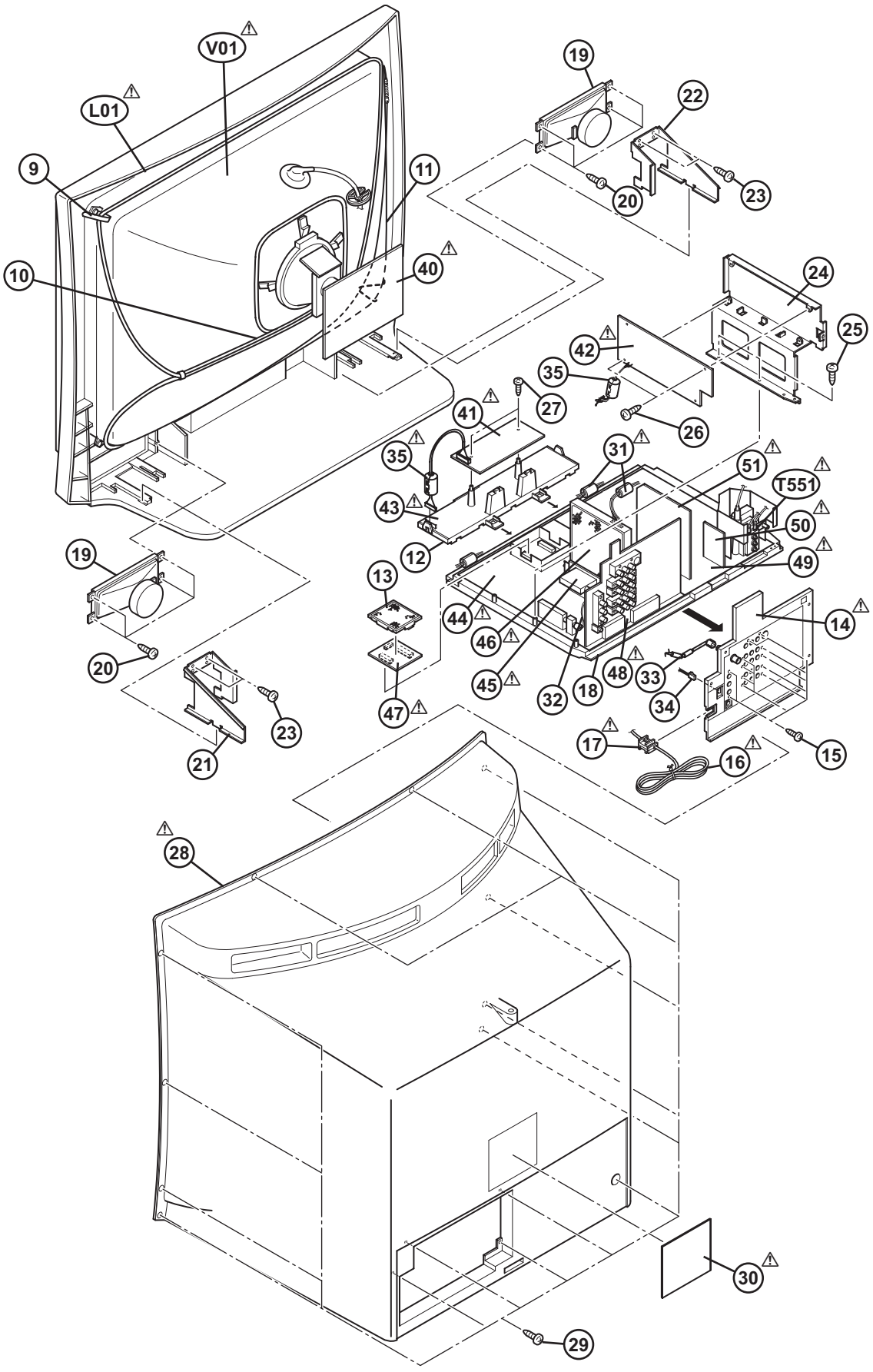
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A68QCU270XV4N	ITC	Inc. DEF YOKE/PC MAGNET	
⚠	L01	QQW0184-001	DEG COIL		
⚠	T551	QQH0185-001	FB TRANSF		
	9	LC30628-002A	DEG CLAMP	(x4)	
	10	WJY0025-002A	BRAIDED ASSY		
	11	WJY0013-002A	E-BRAIDED ASSY		
	12	GG10277-003A-H	CONTROL BASE		
	13	LC21388-001A-C	SHIELD COVER		
⚠	14	LC11613-002D-H	TERMINAL BOARD		
	15	QYSBSF3012ZA	TAP SCREW	M3 x 12mm(x12)	
⚠	16	QMP40D0-200J5	POWER CORD	2m BLACK	HV-Z29J4
⚠	16	QMPN050-200-E2	POWER CORD(EK)	2m BLACK	HV-Z29J4/H,HV-Z29J4/S
⚠	17	CM23167-A01-H	POWER CORD CLAMP		
	18	LC10764-004A-H	CHASSIS BASE		
	19	QAS0282-001	SPEAKER	SP01/SP02(x2)	
	20	QYSBSB4012ZA	TAP SCREW	M4 x 12mm(x8)	
	21	GG20065-001B-H	SUPPORT BRACKET(R)		
	22	GG20065-002B-H	SUPPORT BRACKET(L)		
	23	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x4)	
	24	LC12131-001A-H	LINE FILTER BRACKET		
	25	QYSBSFG4012ZA	TAP SCREW	M4 x 12mm(x2)	
	26	QYSBSGG3008ZA	TAP SCREW	M3 x 8mm(x2)	
	27	QYSBSFG3012ZA	TAP SCREW	M3 x 12mm(x2)	
⚠	28	GG10276-007A-H	REAR COVER		HV-Z29J4/H
⚠	28	GG10276-006B-H	REAR COVER		HV-Z29J4,HV-Z29J4/S
	29	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x15)	
⚠	30	GG20024-001B-H	RATING LABEL		
⚠	31	QQR0491-001	FERRITE CORE	(x3)	
	32	WJX0014-002A	E-COAXIAL ASSY		HV-Z29J4,HV-Z29J4/H
	32	WJX0016-001A	E-COAXIAL ASSY		HV-Z29J4/S
	33	WJX0016-001A	E-COAXIAL ASSY		
	34	WJJ0339-003A	SUB WOOFER WIRE		
⚠	35	QQR0491-001	FERRITE CORE	(x2)	HV-Z29J4/S
⚠	40	SMM-3251A-H2	CRT SOCKET PWB		
⚠	41	SMM-8951A-H2	FRONT SW PWB		
⚠	42	SMM-9251A-H2	LINE FILTER PWB		
⚠	43	SMM-8251A-H2	FRONT CONTROL PWB		
⚠	44	SMM-1251A-H2	MAIN PWB		HV-Z29J4,HV-Z29J4/H
⚠	44	SMM-1252A-H2	MAIN PWB		HV-Z29J4/S
⚠	45	SMM0R251A-H2	SUB TUNER PWB		
⚠	46	SMM0Z251A-H2	DIST PWB		
⚠	47	SMM0M251A-H2	MI-COM PWB		
⚠	48	SMM0S251A-H2	AV SW BOARD ASSY		
⚠	49	SMM-2251A-H2	POWER&DEF PWB		
⚠	50	SMM0E251A-H2	EHT PWB		
⚠	51	SMM0H251A-H2	DEF. OSC. PWB		

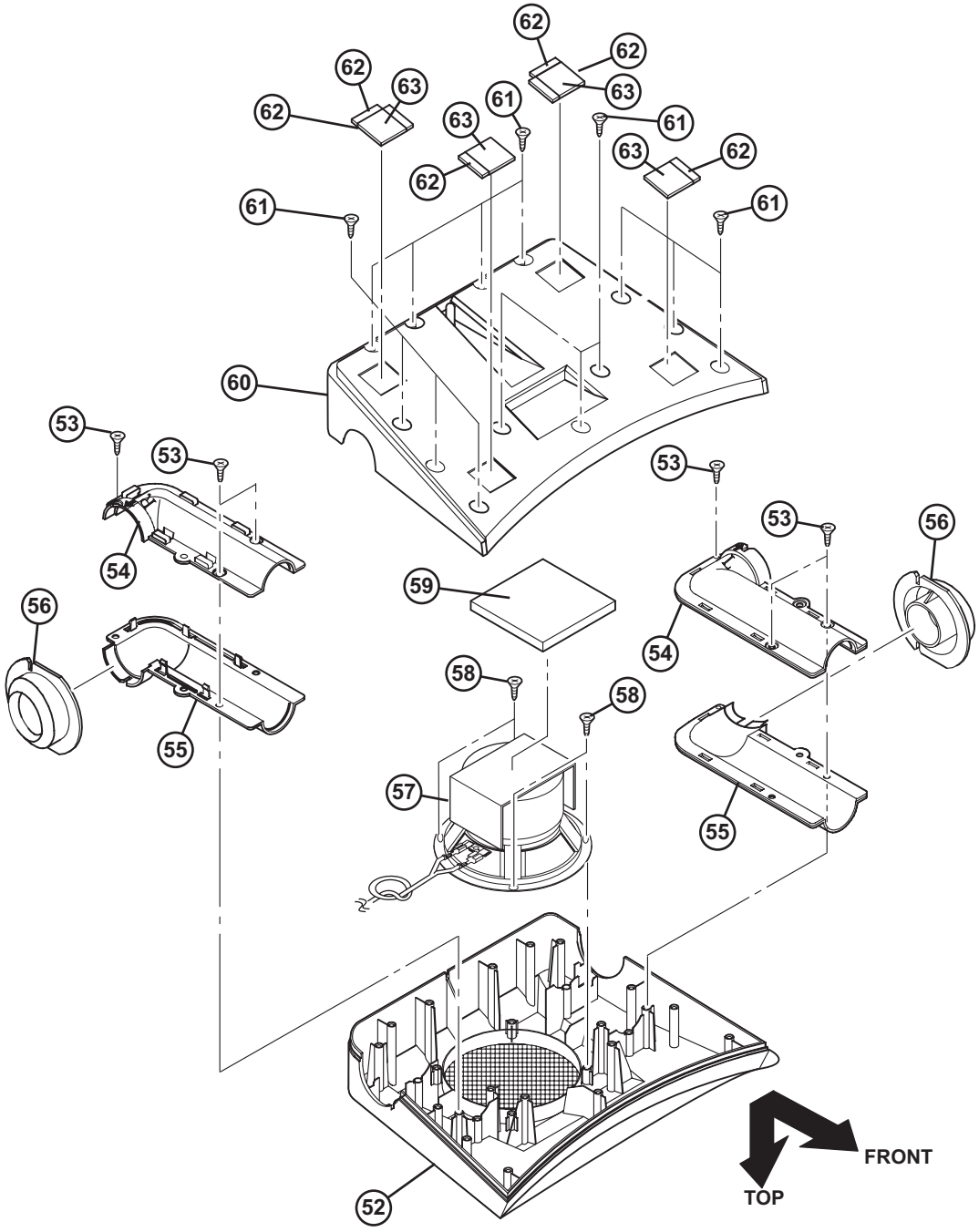
EXPLODED VIEW -2



EXPLODED VIEW PARTS LIST -3

⚠	Ref.No.	Part No.	Part Name	Description	Local
	52	GG10140-001C-H	BASS TOP		
	53	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x6)	
	54	GG20007-002C-H	DUCT BOTTOM	(x2)	
	55	GG20007-001C-H	DUCT TOP	(x2)	
	56	GG30022-001A-H	DUCT COVER	(x2)	
	57	QAS0118-001	SPEAKER	SP03	
	58	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x4)	
	59	LC41211-001A	SOUND ABSORBER		
	60	GG10141-001C-H	BASS BOTTOM		
	61	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x13)	
	62	LC41420-001A	SPACER	(x6)	
	63	LC40352-001A-H	RUBBER SHEET	(x4)	

EXPLODED VIEW -3



PRINTED WIRING BOARD PARTS LIST [HV-Z29J4, HV-Z29J4/H]

MAIN P.W. BOARD ASS'Y (SMM-1251A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC101	MSP3411GQAC1201	IC		
IC201	TA1370FG-X	IC		
IC202	SN74AHC1G08V-X	IC		
IC251	AN15851B-W	IC		
IC252	MM1503XN-X	IC		
IC402	SN74HC14NS-X	IC		
IC551	LA6515	IC		
IC601	HA17558AF-X	IC		
IC641	AN7585	IC		
IC701	CXA1875AM-X	IC		
IC721	BU2098F-X	IC		
IC781	ATE256-Z29J4	IC	(SERVICE)	
IC901	BA12T	IC		
IC902	BA09T	IC		
IC903	SI-8050JD-W	IC		
IC904	SI-8033JD-W	IC		
IC906	BA80BC0FP-X	IC		
Q001	UN2213-X	DIGI TRANSISTOR		
Q101	2SC3928A/QR/-X	TRANSISTOR		
Q102	2SC3928A/QR/-X	TRANSISTOR		
Q103	2SC3928A/QR/-X	TRANSISTOR		
Q104	UN2213-X	DIGI TRANSISTOR		
Q257	2SC3928A/QR/-X	TRANSISTOR		
Q258	2SC3928A/QR/-X	TRANSISTOR		
Q259	2SC3928A/QR/-X	TRANSISTOR		
Q266	2SC3928A/QR/-X	TRANSISTOR		
Q267	2SC3928A/QR/-X	TRANSISTOR		
Q268	2SC3928A/QR/-X	TRANSISTOR		
Q351	2SC3928A/QR/-X	TRANSISTOR		
Q361	2SC3928A/QR/-X	TRANSISTOR		
Q561	2SA1530A/QR/-X	TRANSISTOR		
Q562	2SC3928A/QR/-X	TRANSISTOR		
Q563	2SA1530A/QR/-X	TRANSISTOR		
Q564	2SC3928A/QR/-X	TRANSISTOR		
Q652	2SA1530A/QR/-X	TRANSISTOR		
Q653	2SA1530A/QR/-X	TRANSISTOR		
Q654	UN2226-X	DIGI TRANSISTOR		
Q655	UN2226-X	DIGI TRANSISTOR		
Q656	UN2226-X	DIGI TRANSISTOR		
Q657	UN2210-X	DIGI TRANSISTOR		
Q658	2SC3928A/QR/-X	TRANSISTOR		
Q659	UN2210-X	DIGI TRANSISTOR		
Q660	UN2212-X	DIGI TRANSISTOR		
Q681	2SA1530A/QR/-X	TRANSISTOR		
Q756	2SA1530A/QR/-X	TRANSISTOR		
D401	MA8039/H/-X	Z DIODE		
D421	MA8039/H/-X	Z DIODE		
D422	MA111-X	SI DIODE		
D561	MA8220/M/-X	Z DIODE		
D562	MA111-X	SI DIODE		
D601	MA8047/L/-X	Z DIODE		
D609	MA111-X	SI DIODE		
D641	MA8330/M/-X	Z DIODE		
D642	MA8330/M/-X	Z DIODE		
D643	MA8330/M/-X	Z DIODE		
D656	MA111-X	SI DIODE		
D657	MA111-X	SI DIODE		
D658	MA111-X	SI DIODE		
D659	MA111-X	SI DIODE		
D660	MA111-X	SI DIODE		
D661	MA111-X	SI DIODE		
D662	MA111-X	SI DIODE		
D663	MA111-X	SI DIODE		
D681	MA111-X	SI DIODE		
D682	MA111-X	SI DIODE		
D683	MA111-X	SI DIODE		
D684	MA111-X	SI DIODE		
D701	MA8033/H/-X	Z DIODE		
D702	MA8039/H/-X	Z DIODE		
D771	MA8056/M/-X	Z DIODE		
D772	MA8056/M/-X	Z DIODE		
D773	MA8056/M/-X	Z DIODE		
D774	MA8056/M/-X	Z DIODE		
D903	EC30HA03L-X	SB DIODE		
D904	EC30HA03L-X	SB DIODE		
D905	PTZ6.8B-X	Z DIODE		
D991	MA111-X	SI DIODE		
D992	MA111-X	SI DIODE		
D993	MA111-X	SI DIODE		
D994	MA111-X	SI DIODE		

⚠Ref No.	Part No.	Part Name	Description	Local
C001	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C003	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C105	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C107	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C108	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C109	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C110	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C111	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C112	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C113	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C114	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C115	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C116	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C117	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C118	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C119	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C120	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C124	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C125	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C126	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C127	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C128	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C129	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C130	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C131	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C132	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C133	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C140	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C141	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C142	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C144	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	
C145	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	
C153	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C201	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C202	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C203	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C205	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	
C206	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	
C207	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C251	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C252	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C253	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C254	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C255	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C256	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	
C257	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	
C258	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	
C259	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C260	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C261	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C262	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C263	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C264	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C265	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C266	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C267	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C268	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C269	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C270	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C271	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C272	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C273	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C274	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C275	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	
C276	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	
C277	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C352	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C362	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C405	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C406	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C407	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	

⚠Ref No.	Part No.	Part Name	Description Local
C411	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C421	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C433	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C434	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C435	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C439	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C440	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C560	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C601	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C602	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C603	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C604	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C605	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C606	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
C607	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
C608	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C609	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C610	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C611	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C612	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C613	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C641	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C642	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C643	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C645	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C649	QETM1VM-228	E CAPACITOR	2200uF 35V M
C654	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
C655	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
C656	QETM1VM-338	E CAPACITOR	3300uF 35V M
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C663	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C664	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C666	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C681	QETM1EM-228	E CAPACITOR	2200uF 25V M
C721	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C722	NCB31CK-563X	C CAPACITOR	0.056uF 16V K
C741	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C742	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C744	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C753	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C754	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C781	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C901	QETN1EM-107Z	E CAPACITOR	100uF 25V M
C902	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C905	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C906	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C907	QETM1EM-228	E CAPACITOR	2200uF 25V M
C909	QEZ0256-128	E CAPACITOR	1200uF 10V M
C911	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C912	QETM1EM-228	E CAPACITOR	2200uF 25V M
C914	QEZ0256-128	E CAPACITOR	1200uF 10V M
C916	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C919	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C920	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R001	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R101	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R102	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R103	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R104	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R105	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R106	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R109	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R110	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R111	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R112	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R113	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R120	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R122	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R123	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R201	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R202	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R203	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R204	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R205	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R206	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R208	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R210	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R216	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R253	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R257	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R258	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R259	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R260	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R261	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R262	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R266	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R267	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R268	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R271	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R351	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R352	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R353	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R361	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R362	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R401	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R402	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R407	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R418	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
R421	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R551	QRK126J-100X	UNF C RESISTOR	10Ω 1/2W J
R552	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R555	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R556	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R557	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R558	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R559	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R560	QRK126J-100X	UNF C RESISTOR	10Ω 1/2W J
R562	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R563	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R564	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R565	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R566	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R567	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R568	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R569	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R570	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R601	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R605	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R606	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R607	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R609	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R610	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R612	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R614	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R615	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R616	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R617	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R618	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R619	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R620	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R641	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R642	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R643	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R647	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R648	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R653	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R654	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R656	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description	Local
R657	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R658	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R659	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R661	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R662	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R663	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R665	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R666	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R667	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R669	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R681	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R682	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R703	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R708	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R709	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R711	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R712	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R723	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R724	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R726	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R727	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R737	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R738	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R760	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R762	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R763	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R764	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R765	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R766	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R772	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R773	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R774	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R775	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R776	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R781	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R782	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R783	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R784	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R907	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J	
R908	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R910	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R911	QRK126J-5R6X	UNF C RESISTOR	5.6Ω 1/2W J	
R912	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R914	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
L001	QQL244K-270Z	PEAKING COIL	27uH K	
L002	QQL244K-100Z	PEAKING COIL	10uH K	
L101	NQL092M-180X	P COIL	18uH M	
L102	NQL092M-220X	CHIP P COIL	22uH M	
L103	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J	
L104	QQL244K-4R7Z	PEAKING COIL	4.7uH K	
L201	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J	
L432	QQL26AK-100Z	CHOKE COIL	10uH K	
L433	QQL26AK-100Z	CHOKE COIL	10uH K	
L903	QQL50AK-330Z	CHOKE COIL	33uH K	
L905	QQR1401-001	CHOKE COIL		
L906	QQL26AK-220Z	CHOKE COIL	22uH K	
L907	QQL26AK-820Z	CHOKE COIL	82uH K	
L908	QQR1401-001	CHOKE COIL		
L909	QQL50AK-100Z	CHOKE COIL	10uH K	
CN001	QGB1506L1-16	CONNECTOR	B-B (1-16)	
CN002	QGB1506L1-16	CONNECTOR	B-B (1-16)	
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)	
CN004	QGB2023M1-30	CONNECTOR	B-B (1-30)	
CN005	QGB2023M1-30	CONNECTOR	B-B (1-30)	
CN006	QGB1505J1-25	CONNECTOR	B-B (1-25)	
CN007	QGB1505J1-35	CONNECTOR	B-B (1-35)	
CN008	QGB1509J1-55	CONNECTOR	B-B (1-55)	
CN009	QGB1509J1-55	CONNECTOR	B-B (1-55)	
CN012	QGB1505J1-25	CONNECTOR	B-B (1-25)	
K101	NQR0389-003X	FERRITE BEADS		
K102	NQR0389-003X	FERRITE BEADS		
K901	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J	
K903	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J	
K904	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J	
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z	
⚠TU001	QAU0392-001	TUNER	MAIN	
⚠UD001	QAU0308-001	RF SPLITTER		
X101	QAX0773-001Z	CRYSTAL	18.432000MHz	
X201	CSB503F30-T2	C RESONATOR		

POWER & DEF P.W. BOARD ASS'Y (SMM-2251A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC401	LA7876NZ	IC		
IC901	STR-F6458-F7	IC		
IC951	SE140N	IC		
Q401	KTC3199/YG/-T	TRANSISTOR		
Q402	KTC3199/YG/-T	TRANSISTOR		
Q461	2SC1959/Y/-T	TRANSISTOR		
Q462	2SA562TM/Y/-T	TRANSISTOR		
Q463	2SK2417	POWER MOS FET		
Q501	KTC3199/YG/-T	TRANSISTOR		
Q502	2SC1627A/Y/-T	TRANSISTOR		
⚠Q522	2SC5914-RL	POW TRANSISTOR	H OUT	
Q523	KTC3199/YG/-T	TRANSISTOR		
Q551	2SK2655-01R	POWER MOS FET		
Q553	2SC1959/Y/-T	TRANSISTOR		
Q554	2SA562TM/Y/-T	TRANSISTOR		
Q941	KTC3199/YG/-T	TRANSISTOR		
Q942	KTA1267/YG/-T	TRANSISTOR		
Q943	KTC3199/YG/-T	TRANSISTOR		
Q951	2SA1371/EF/Z1-T	SI TRANSISTOR		
Q952	2SC1627A/Y/-T	TRANSISTOR		
Q953	2SC1627A/Y/-T	TRANSISTOR		
Q954	DTC124ESA-T	DIGI TRANSISTOR		
D401	RD100E/B/-T2	Z DIODE		
D402	1SR35-400A-T2	SI DIODE		
D403	1SR35-400A-T2	SI DIODE		
D404	1SS133-T2	SI DIODE		
D405	1SS133-T2	SI DIODE		
D406	MTZJ6.8C-T2	Z DIODE		
D407	MTZJ6.8C-T2	Z DIODE		
D461	RGP10J-04TS-T3	SI DIODE		
D501	1SS133-T2	SI DIODE		
D522	V11CA-C1	SI DIODE		
D523	FMV-3FU-F1	SI DIODE		
D524	RG2A-LFC4	SI DIODE		
D525	1SS81-T5	SI DIODE		
D526	MTZJ12C-T2	Z DIODE		
D527	MTZJ15B-T2	Z DIODE		
D528	MTZJ15B-T2	Z DIODE		
D529	MTZJ10B-T2	Z DIODE		
D550	RU4DS-F1	SI DIODE		
D551	1SR124-400A-T2	SI DIODE		
D555	RU1P-T3	SI DIODE		
D556	1SR35-400A-T2	SI DIODE		
D557	MTZJ9.1B-T2	Z DIODE		
D701	RH1S-T3	SI DIODE		
D702	RGP10J-04TS-T3	SI DIODE		
D703	RGP10J-04TS-T3	SI DIODE		
D901	RBV-606	BRIDGE DIODE		
D902	RG1C-LFA1	SI DIODE		
D903	MTZJ6.8C-T2	Z DIODE		
D904	RGP10J-04TS-T3	SI DIODE		
D905	RGP10J-04TS-T3	SI DIODE		
D906	MTZJ27B-T2	Z DIODE		
D907	1SS133-T2	SI DIODE		
D908	MTZJ15B-T2	Z DIODE		
D910	1SS133-T2	SI DIODE		
D911	MTZJ15B-T2	Z DIODE		
D942	1SS133-T2	SI DIODE		
D944	1SS133-T2	SI DIODE		
D951	RU4B-F1	SI DIODE		
D952	RU4B-F1	SI DIODE		
D953	RGP10J-04TS-T3	SI DIODE		
D954	FMX-G12S	SI DIODE		
D955	RU3YX-LFC4	SI DIODE		
D956	FMX-G12S	SI DIODE		
D957	FMX-G12S	SI DIODE		
D958	MTZJ3.9B-T2	Z DIODE		
D959	MTZJ33B-T2	Z DIODE		
D960	MTZJ15B-T2	Z DIODE		
D961	1SS133-T2	SI DIODE		
D962	1SS133-T2	SI DIODE		

⚠Ref No.	Part No.	Part Name	Description Local
D963	1SS133-T2	SI DIODE	
D964	MTZJ9.1B-T2	Z DIODE	
D965	1SS133-T2	SI DIODE	
D966	1SS133-T2	SI DIODE	
D968	1SS133-T2	SI DIODE	
D969	1SS133-T2	SI DIODE	
C401	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C402	QFLC1HJ-392Z	M CAPACITOR	3900pF 50V J
C403	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
C404	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C406	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
C407	QEHR1VM-107Z	E CAPACITOR	100uF 35V M
C408	QEHR1VM-107Z	E CAPACITOR	100uF 35V M
C409	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C412	QCB31HK-222Z	C CAPACITOR	2200pF 50V K
C413	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C461	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C463	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C464	QFN32DK-472Z	M CAPACITOR	4700pF 200V K
C501	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C502	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C503	QEM61HK-475Z	E CAPACITOR	4.7uF 50V K
C504	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C505	QCB32HK-391Z	C CAPACITOR	390pF 500V K
C506	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C522	QFZ0196-143	MPP CAPACITOR	0.014uF 1.5kV H
C524	QFP32JJ-153	PP CAPACITOR	0.015uF 630V J
C525	QEZ0414-226	BP E CAPACITOR	22uF 50V M
C526	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J
C527	QFZ0197-124	MPP CAPACITOR	0.12uF 250V J
C528	QFZ0128-154	MPP CAPACITOR	0.15uF DC400V H
C529	QCS32HJ-561	C CAPACITOR	560pF 500V J
C530	QCZ0354-681Z	C CAPACITOR	680pF 2kV K
C531	QCZ0354-681Z	C CAPACITOR	680pF 2kV K
C532	QFN32AJ-682Z	M CAPACITOR	6800pF 100V J
C533	QCB31HK-682Z	C CAPACITOR	6800pF 50V K
C534	QCS31HJ-470Z	C CAPACITOR	47pF 50V J
C535	QFP42JJ-682	PP CAPACITOR	6800pF 630V J
C536	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J
C551	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C552	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C554	QFZ0196-382	MPP CAPACITOR	3800pF 1.5kV H
C556	QEZ0568-107	E CAPACITOR	100uF 250V M
C559	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C560	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J
C701	QEZ0203-107	E CAPACITOR	100uF 160V M
C702	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C703	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C704	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C705	QFLC2AJ-333Z	M CAPACITOR	0.033uF 100V J
⚠C903	QCZ9015-472Z	C CAPACITOR	4700pF AC250V Z
⚠C904	QCZ9015-472Z	C CAPACITOR	4700pF AC250V Z
⚠C905	QCZ9015-472Z	C CAPACITOR	4700pF AC250V Z
C906	QEZ0649-337	E CAPACITOR	330uF 400V M
C907	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C908	QCZ0354-391Z	C CAPACITOR	390pF 2kV K
C909	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C910	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C911	QCZ0354-561Z	C CAPACITOR	560pF 2kV K
C912	QFLC1HJ-182Z	M CAPACITOR	1800pF 50V J
C913	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J
C914	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C915	QEZ0649-337	E CAPACITOR	330uF 400V M
C943	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C951	QCZ0354-821Z	C CAPACITOR	820pF 2kV K
C952	QEZ0368-227	E CAPACITOR	220uF 200V M
C953	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C954	QEHR1HM-227Z	E CAPACITOR	220uF 50V M
C956	QEZ0257-228	E CAPACITOR	2200uF 25V M
C957	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C958	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C959	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C960	QETM1HM-228	E CAPACITOR	2200uF 50V M
C961	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C963	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J
C966	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C967	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C968	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C969	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C970	QETN1CM-227Z	E CAPACITOR	220uF 16V M
⚠C999	QCZ9079-471	C CAPACITOR	470pF AC250V K
R401	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J
R402	QRA14CF-5601Y	CMF RESISTOR	5.6kΩ 1/4W F
R403	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F
R404	QRE121J-180Y	C RESISTOR	18Ω 1/2W J
R405	QRA14CF-6801Y	CMF RESISTOR	6.8kΩ 1/4W F
R406	QRA14CF-6801Y	CMF RESISTOR	6.8kΩ 1/4W F
R407	QRA14CF-3301Y	CMF RESISTOR	3.3kΩ 1/4W F
R408	QRA14CF-8200Y	CMF RESISTOR	820Ω 1/4W F
R409	QRA14CF-8200Y	CMF RESISTOR	820Ω 1/4W F
R410	QRL02EJ-151X	OMF RESISTOR	150Ω 2W J
R411	QRT02EJ-1R8X	MF RESISTOR	1.8Ω 2W J
R412	QRE121J-8R2Y	C RESISTOR	8.2Ω 1/2W J
R414	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R415	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R416	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
R417	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J
R418	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J
R461	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R462	QRE141J-470Y	C RESISTOR	47Ω 1/4W J
R465	QRL02EJ-102X	OMF RESISTOR	1kΩ 2W J
R466	QRL02EJ-820X	OMF RESISTOR	82Ω 2W J
R467	QRL02EJ-820X	OMF RESISTOR	82Ω 2W J
R501	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R502	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R503	QRE141J-820Y	C RESISTOR	82Ω 1/4W J
R504	QRL03EJ-151X	OMF RESISTOR	150Ω 3W J
R505	QRL03EJ-151X	OMF RESISTOR	150Ω 3W J
R506	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R524	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R525	QRL02EJ-821X	OMF RESISTOR	820Ω 2W J
R526	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
R527	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R528	QRE141J-470Y	C RESISTOR	47Ω 1/4W J
R529	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
R530	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J
R531	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R532	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
R533	QRF054J-470	UNF WW RESISTOR	47Ω 5W J
R535	QRE141J-330Y	C RESISTOR	33Ω 1/4W J
R537	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
⚠R551	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R552	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F
⚠R554	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F
R557	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J
R558	QRM059J-R15	MP RESISTOR	0.15Ω 5W J
R564	QRE141J-274Y	C RESISTOR	270kΩ 1/4W J
R565	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F
R566	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F
R567	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F
R568	QRA14CF-5601Y	CMF RESISTOR	5.6kΩ 1/4W F
⚠R701	QRZ9009-1R5	FUSI RESISTOR	1.5Ω 1/2W J
⚠R702	QRZ9023-2R2	FUSIBLE RESISTOR	2.2Ω
⚠R703	QRZ9023-2R2	FUSIBLE RESISTOR	2.2Ω
R704	QRL01EJ-220X	OMF RESISTOR	22Ω 1W J
R705	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
R706	QRT01EJ-2R2X	MF RESISTOR	2.2Ω 1W J
R901	QRF154K-R82	UNF WW RESISTOR	0.82Ω 15W K
R902	QRE121J-394Y	C RESISTOR	390kΩ 1/2W J
R903	QRE121J-394Y	C RESISTOR	390kΩ 1/2W J
R904	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J
R905	QRL03EJ-823X	OMF RESISTOR	82kΩ 3W J
R906	QRL03EJ-823X	OMF RESISTOR	82kΩ 3W J
R907	QRL03EJ-393X	OMF RESISTOR	39kΩ 3W J
⚠R908	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R909	QRE121J-122Y	C RESISTOR	1.2kΩ 1/2W J
R910	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J
R911	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R912	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R913	QRM059J-R10	MP RESISTOR	0.1Ω 5W J
R914	QRT02EJ-R18X	MF RESISTOR	0.18Ω 2W J
R915	QRF154K-R82	UNF WW RESISTOR	0.82Ω 15W K
R916	QRT02EJ-R15X	MF RESISTOR	0.15Ω 2W J
R944	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J
R945	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J
R946	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J
R947	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
R951	QRL039J-681	OMF RESISTOR	680Ω 3W J
R952	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J
R958	QRL02EJ-561X	OMF RESISTOR	560Ω 2W J
R959	QRT02EJ-1R2X	MF RESISTOR	1.2Ω 2W J
R960	QRT02EJ-1R0X	MF RESISTOR	1Ω 2W J
R962	QRE121J-392Y	C RESISTOR	3.9kΩ 1/2W J
R963	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R964	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J
R965	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
R966	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R967	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J
R968	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J
R969	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J
R971	QRL02EJ-820X	OMF RESISTOR	82Ω 2W J
R972	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J

⚠Ref No.	Part No.	Part Name	Description Local
R974	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R975	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J
R976	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
⚠R999	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L461	QQR1425-001	CHOKE COIL	
L523	QQR1195-001	LINE FILTER	
L524	QQR1423-001	CHOKE COIL	
L526	QQR1149-008	LINEARITY COIL	
L553	QQLZ026-220	COIL	22uH Å}7%
L701	QQR1422-001	CHOKE COIL	
L942	QQL26AK-220Z	CHOKE COIL	22uH K
L951	QQLZ026-460	COIL	46uH Å}7%
L952	QQL26AK-220Z	CHOKE COIL	22uH K
L953	QQLZ026-240	COIL	24uH Å}7%
T501	QQR1424-001	DRIVE TRANSF	
⚠T701	QQR1622-001	DAF TRANSF	
⚠T901	QQS0253-001	SW TRANSF	
CN001	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN002	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN003	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN00K	QUB572-26FPFX	SIN TWIST WIRE	
CN00L	CE41507-001P	LV CONNECTOR	
CN00P	QJK002-031813	SIN CR C-B WIRE	
CN010	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN011	QGB1505J1-15	CONNECTOR	B-B (1-15)
CN0E3	CE41507-001P	LV CONNECTOR	
CN0HV	CHC802T-05N-T	LV CONNECTOR	
⚠CP951	QMFZ049-4R0Z-E	FUSE	4A 125V
⚠CP953	ICP-N38-Y	IC PROTECTOR	1.5A
HS551	LC21032-001A	HVT SHIELD	
K401	QQR0621-002Z	FERRITE BEADS	
K521	QQR0679-001	FERRITE BEADS	
K522	QQR0679-001	FERRITE BEADS	
K551	QQR0679-001	FERRITE BEADS	
K552	QQR0679-001	FERRITE BEADS	
K901	QQR0679-001	FERRITE BEADS	
K951	QQR0621-002Z	FERRITE BEADS	
K952	QQR0621-002Z	FERRITE BEADS	
K954	QQR0621-002Z	FERRITE BEADS	
K955	QQR0621-002Z	FERRITE BEADS	
⚠PC901	PC123Y22FZ	PHOTO COUPLER	
⚠RY951	QSK0090-001	RELAY	
⚠RY952	QSK0090-001	RELAY	
⚠SG551	QAF0046-242Z	SURGE ABSORBER	2400V M
⚠TH901	QAD0145-2R3	P THERMISTOR	2.3Ω

CRT SOCKET P.W. BOARD ASS'Y(SMM-3251A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC3201	TDA6111Q	IC	
IC3202	TDA6111Q	IC	
IC3203	TDA6111Q	IC	
Q3701	2SC1906-T	TRANSISTOR	
Q3702	2SA1005/MLK/-T	TRANSISTOR	
Q3703	2SC1959/Y/-T	TRANSISTOR	
Q3704	2SA562TM/Y/-T	TRANSISTOR	
Q3705	2SJ584LS-CB11	POWER MOS FET	
Q3706	2SK2417	POWER MOS FET	
D3201	EU01N-T2	SI DIODE	
D3202	EU01N-T2	SI DIODE	
D3203	EU01N-T2	SI DIODE	
D3204	RM2C-LFA1	SI DIODE	
D3205	1SR124-400A-T2	SI DIODE	
D3206	1SR124-400A-T2	SI DIODE	
D3207	1SR124-400A-T2	SI DIODE	
D3209	MA3130/H/-X	CHIP ZENER DIODE	
D3210	MA3130/H/-X	CHIP ZENER DIODE	
D3701	1SS355-X	SI DIODE	
D3702	RH1S-T3	SI DIODE	
D3703	RH1S-T3	SI DIODE	
C3201	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3202	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3203	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3204	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3205	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3206	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3207	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3208	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3209	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3210	QFK62EK-104Z	MM CAPACITOR	0.1uF 250V K
C3211	QFK62EK-104Z	MM CAPACITOR	0.1uF 250V K
C3212	QFK62EK-104Z	MM CAPACITOR	0.1uF 250V K
C3213	NDC31HJ-681X	C CAPACITOR	680pF 50V J
C3214	NDC31HJ-681X	C CAPACITOR	680pF 50V J
C3215	NDC31HJ-681X	C CAPACITOR	680pF 50V J
C3218	QETM2EM-336	E CAPACITOR	33uF 250V M
C3219	QFZ0097-223	MM CAPACITOR	0.022uF 1.25KV M
C3221	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3222	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3223	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3224	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3225	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C3701	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C3702	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C3703	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z
C3704	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C3707	QFN32DK-103	M CAPACITOR	0.01uF 200V K
C3708	QFN32DK-103	M CAPACITOR	0.01uF 200V K
C3709	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3710	QETN2CM-226Z	E CAPACITOR	22uF 160V M
C3711	QETN2CM-226Z	E CAPACITOR	22uF 160V M
C3712	QFLC1HJ-222Z	M CAPACITOR	2200pF 50V J
C3713	QFLC1HJ-222Z	M CAPACITOR	2200pF 50V J
C3716	QCS32HJ-330Z	C CAPACITOR	33pF 500V J
C3717	QFN32DK-103	M CAPACITOR	0.01uF 200V K
C3718	QFN32DK-103	M CAPACITOR	0.01uF 200V K
C3719	QFZ0197-334	MPP CAPACITOR	0.33uF 250V J
C3720	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
R3201	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3202	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3203	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3218	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3219	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3220	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3222	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R3223	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3224	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3225	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3226	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3227	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3228	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3229	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3230	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3231	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3232	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3234	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R3235	QRZ0107-102Z	C RESISTOR	1kΩ 1/2W K
R3236	QRZ0107-105Z	C RESISTOR	1MΩ 1/2W K
R3239	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3702	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R3703	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3704	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3705	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R3706	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R3707	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R3710	QRJ146J-182X	UNF C RESISTOR	1.8kΩ 1/4W J
R3711	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J
R3712	QRE121J-473Y	C RESISTOR	47kΩ 1/2W J
R3713	QRJ146J-681X	UNF C RESISTOR	680Ω 1/4W J
R3714	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J
R3715	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J
R3716	QRT029J-8R2	MF RESISTOR	8.2Ω 2W J
R3719	QRG01GJ-180	OMF RESISTOR	18Ω 1W J
R3720	QRL039J-220	OMF RESISTOR	22Ω 3W J
R3721	QRL039J-220	OMF RESISTOR	22Ω 3W J
R3722	QRL039J-470	OMF RESISTOR	47Ω 3W J
R3723	QRL039J-220	OMF RESISTOR	22Ω 3W J
R3724	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3725	QRL039J-470	OMF RESISTOR	47Ω 3W J
L3211	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L3212	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L3213	QQL244K-5R6Z	PEAKING COIL	5.6uH K
CN300E	WJK0164-001A	E-SI C WIRE C-B	
CN30E1	CE41507-001P	LV CONNECTOR	
CN30SC	QGZ0017C1-01Z	CONNECTOR	(1-1)
CN30VM	WJM0048-002A	E-SI C WIRE C-F	
K3105	QQR0621-002Z	FERRITE BEADS	
K3106	QQR0621-002Z	FERRITE BEADS	

⚠Ref No.	Part No.	Part Name	Description	Local
K3202	QQR0679-001	FERRITE BEADS		
K3701	QQR1114-001Z	FERRITE BEADS		
K3702	QQR0582-001Z	FERRITE BEADS		
SG3201	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3202	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3203	QAF0056-501Z	SURGE ABSORBER	500V M	
⚠SK3001	QNZ0634-001	CRT SOCKET		

FRONT CONTROL P.W. BOARD ASS'Y (SMM-8251A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
⚠IC8931	QAL0515-001	POWER TRANSF		
D8001	MA8039/H/-X	Z DIODE		
D8011	MA111-X	SI DIODE		
D8012	MA111-X	SI DIODE		
D8013	MA111-X	SI DIODE		
D8014	MA111-X	SI DIODE		
D8015	MA111-X	SI DIODE		
D8016	MA111-X	SI DIODE		
D8901	S1WB/A/60-4101	BRIDGE DIODE		
C8001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C8002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C8310	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8311	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
⚠C8901	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
⚠C8902	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
⚠C8903	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
C8904	QEZ0632-226	E CAPACITOR	22uF 400V M	
C8941	QTMN1CM-477Z	E CAPACITOR	470uF 16V M	
C8942	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
⚠C8991	QCZ9079-471	C CAPACITOR	470pF AC250V K	
R8001	QRK126J-101X	UNF C RESISTOR	100Ω 1/2W J	
R8002	QRK126J-101X	UNF C RESISTOR	100Ω 1/2W J	
R8011	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8012	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8013	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8022	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8901	QRZ0216-4R7	UNF WW RESISTOR	4.7Ω 7W K	
L8941	QQL26AM-4R7Z	COIL	4.7uH M	
CN800B	QJK002-122012	SIN CR C-B WIRE		
CN800X	WJK0050-011A	E-SI C WIRE C-B		
⚠CP8901	QMFZ052-2R0-E	FUSE	2A AC250V	
J8001	QNS0155-001	3.5 JACK	HEADPHONE	
J8301	CEMN011-003	PIN JACK	VIDEO-4 R IN	
J8302	CEMN011-002	PIN JACK	VIDEO-4 L IN	
J8303	CEMN011-001	PIN JACK	VIEO-4 V IN	
J8304	QMCC004-C01	MINI DIN JACK	VIDEO-4 S IN	
S8001	QSW0619-003Z	TACT SWITCH	MENU	
S8002	QSW0619-003Z	TACT SWITCH	CH-	
S8003	QSW0619-003Z	TACT SWITCH	CH+	
S8004	QSW0619-003Z	TACT SWITCH	VOL-	
S8005	QSW0619-003Z	TACT SWITCH	VOL+	
S8006	QSW0619-003Z	TACT SWITCH	TV/VIDEO	

FRONT SW P.W. BOARD ASS'Y (SMM-8951A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC8851	GP1UM281QK	IR DETECT UNIT	38kHz	
IC8852	S9066-11	PHOTO CONDUCTOR		
Q8801	UN2112-X	DIGI TRANSISTOR		
Q8802	UN2112-X	DIGI TRANSISTOR		
D8801	SPR-39MVWF	LED	POWER	
D8851	MA8068/M/-X	Z DIODE		
C8851	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8852	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8853	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
R8801	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R8802	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R8803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8804	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R8805	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R8806	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R8851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
CN800Q	WJK0050-005A	E-SI C WIRE C-B		
CN800W	WJK0050-012A	E-SI C WIRE C-B		
CN800Y	QJK002-091214	SIN CR C-B WIRE		
⚠S8901	QSW1041-001	PUSH SWITCH	POWER	

LINE FILTER P.W. BOARD ASS'Y (SMM-9251A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
⚠C9901	QFZ9075-474	MPP CAPACITOR	0.47uF AC275V M	
⚠C9902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	
⚠C9903	QFZ9075-474	MPP CAPACITOR	0.47uF AC275V M	
⚠C9904	QCZ9079-471	C CAPACITOR	470pF AC250V K	
⚠R9901	QRZ0111-474	C RESISTOR	470kΩ 1/2W K	
CN90E4	CE41507-001P	LV CONNECTOR		
⚠F9901	QMF51E2-5R0S	FUSE	5A AC250V	
⚠LF9901	QQR1253-002	LINE FILTER		
⚠LF9902	QQR1253-002	LINE FILTER		
⚠LF9903	QQR1253-002	LINE FILTER		
⚠VA9901	QAF0052-621	VARISTOR	620V	

EHT P.W. BOARD ASS'Y (SMM0E251A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC2501	RC4558D-X	IC		
Q2501	2SC3928A/QR/-X	TRANSISTOR		
Q2502	2SA966/OY/-T	TRANSISTOR		
D2501	MA8150/M/-X	Z DIODE		
D2502	MA8091/M/-X	Z DIODE		
D2503	MA8056/M/-X	Z DIODE		
D2504	MA111-X	SI DIODE		
C2501	NDC31HJ-681X	C CAPACITOR	680pF 50V J	
C2502	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C2503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
R2501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2504	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2505	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2506	QVP0086-502Z	TRIM RESISTOR	5kΩ 0.3W N	
R2507	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R2509	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2510	QVP0086-204Z	TRIM RESISTOR	200kΩ 0.3W N	
R2511	NRSA63D-104X	MG RESISTOR	100kΩ 1/16W D	
R2512	NRVA63D-683X	CMF RESISTOR	68kΩ 1/16W D	
R2513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2515	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2517	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2518	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2519	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2521	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2523	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
CN011	QGB1505K1-15	CONNECTOR	B-B (1-15)	
M2501	MSPAD402	PWB MODULE		

DEF. OSC P.W. BOARD ASS'Y (SMM0H251A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC0101	LA7860M-X	IC		

⚠Ref No.	Part No.	Part Name	Description Local
IC0102	BA12FP-X	IC	
IC0161	AN5441SA-W	IC	
IC0162	BA10393F-XE	IC	
IC0163	AN7805F	IC	
IC0212	CXA1875AM-X	IC	
Q0101	2SC3928A/QR/-X	TRANSISTOR	
Q0102	2SC3928A/QR/-X	TRANSISTOR	
Q0131	2SC3928A/QR/-X	TRANSISTOR	
Q0132	2SC3928A/QR/-X	TRANSISTOR	
Q0161	2SC3928A/QR/-X	TRANSISTOR	
Q0162	2SC3928A/QR/-X	TRANSISTOR	
Q0163	UN2226-X	DIGI TRANSISTOR	
Q0751	2SC3928A/QR/-X	TRANSISTOR	
Q0752	2SC3928A/QR/-X	TRANSISTOR	
Q0753	2SC4632	POW TRANSISTOR	
Q0754	2SC3928A/QR/-X	TRANSISTOR	
D0162	1SS355-X	SI DIODE	
D0163	MA111-X	SI DIODE	
D0164	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
D0222	MA8062/M/-X	Z DIODE	
D0223	MA8062/M/-X	Z DIODE	
D0751	ES1F-LFG2	SI DIODE	
D0752	ES1F-LFG2	SI DIODE	
C0102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0104	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C0106	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0107	NDC21HJ-122X	C CAPACITOR	1200pF 50V J
C0108	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M
C0109	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0110	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C0111	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C0112	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C0113	NDC21HJ-122X	C CAPACITOR	1200pF 50V J
C0114	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0115	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0116	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0117	QTMN1CM-477Z	E CAPACITOR	470uF 16V M
C0118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0119	QEKC1EM-476Z	E CAPACITOR	47uF 25V M
C0120	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C0121	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C0122	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0124	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0131	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C0132	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C0133	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C0134	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C0135	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0136	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0137	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C0138	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C0161	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C0162	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0163	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C0164	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0165	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0166	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C0168	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0170	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0171	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
C0172	QFVF1HJ-824Z	MF CAPACITOR	0.82uF 50V J
C0173	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C0174	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0175	NCS21HJ-152X	C CAPACITOR	1500pF 50V J
C0176	QFLC1HJ-272Z	M CAPACITOR	2700pF 50V J
C0177	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C0178	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0179	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0180	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0181	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0182	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0212	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0751	QFVF1HJ-223Z	MF CAPACITOR	0.022uF 50V J
C0752	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C0753	QFZ0122-752	MPP CAPACITOR	7500pF 1.8kV H
C0754	QFVF1HJ-223Z	MF CAPACITOR	0.022uF 50V J
C0761	QFZ0122-682	MPP CAPACITOR	6800pF 1.8kV H
R0101	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0103	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R0104	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0105	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R0106	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R0107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0109	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R0110	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R0111	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D
R0112	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
R0113	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R0114	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R0116	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
R0117	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0120	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R0121	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R0122	QRG01GJ-470	OMF RESISTOR	47Ω 1W J
⚠R0123	QRK126J-101X	UNF C RESISTOR	100Ω 1/2W J
R0124	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R0126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0129	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D
R0131	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0133	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R0134	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
R0138	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0139	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R0140	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0141	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0142	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R0161	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0162	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0163	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0164	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0165	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R0167	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0168	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0169	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R0170	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R0171	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0172	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0173	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0174	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0175	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0177	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R0178	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R0179	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D
R0180	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D
R0183	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0187	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0188	NRVA02D-101X	CMF RESISTOR	100Ω 1/10W D
R0190	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D
R0191	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R0216	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0217	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0223	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0224	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0226	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0751	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R0752	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0753	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0754	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R0755	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R0756	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R0757	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R0758	QRZ0056-102Z	COMP RESISTOR	1kΩ 1/2W K
R0759	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0761	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0762	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0763	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0764	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0765	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R0769	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0770	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
L0101	QQL244K-470Z	PEAKING COIL	47uH K
L0103	NQL092K-100X	COIL	10uH K
L0104	NQL092K-100X	COIL	10uH K
L0105	QQL244K-101Z	PEAKING COIL	100uH K
T0751	QQR1096-001	DAF TRANSF	
CN000K	CE41507-001P	LV CONNECTOR	
CN000L	QUB572-18FPFX	SIN TWIST WIRE	
CN0010	QGB1505K1-35	CONNECTOR	B-B (1-35)

MI-COM P.W. BOARD ASS'Y (SMM0M251A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC001	SDA6000-B12	IC	
IC002	S-80828CNNB-W	IC	
IC003	K4S641632H-UC75	IC	
IC191	PQ2L3252MS-X	IC	
Q001	UMX1N-W	PAIR TRANSISTOR	
Q003	2SC3928A/QR/-X	TRANSISTOR	
Q004	UN2213-X	DIGI TRANSISTOR	
Q013	2SK1830-X	MOS FET	
Q014	2SK1830-X	MOS FET	
Q015	2SK1830-X	MOS FET	
D001	MA111-X	SI DIODE	
D005	RSA6.1J4-W	SI DIODE	
C001	NEH70GM-227X	E CAPACITOR	220uF 4V M
C002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C004	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C005	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C006	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C007	NEH70GM-227X	E CAPACITOR	220uF 4V M
C008	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C013	NEH71CM-476X	E CAPACITOR	47uF 16V M
C020	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C023	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C025	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C026	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C027	NEH71CM-476X	E CAPACITOR	47uF 16V M
C028	NEH71CM-476X	E CAPACITOR	47uF 16V M
C029	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C032	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C036	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C038	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C040	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C041	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C048	NEH71CM-476X	E CAPACITOR	47uF 16V M
C049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C051	NEH71CM-476X	E CAPACITOR	47uF 16V M
C052	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C053	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C055	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C056	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C057	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C058	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C059	NEH71CM-106X	E CAPACITOR	10uF 16V M
C060	NEH71CM-106X	E CAPACITOR	10uF 16V M
C061	NEH71CM-106X	E CAPACITOR	10uF 16V M
C062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C063	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C068	NCB31AK-105X	C CAPACITOR	1uF 10V K
R001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R003	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R004	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R005	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R006	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R008	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R012	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R013	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R014	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R018	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R019	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R022	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R024	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R030	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R032	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R036	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R037	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R038	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R041	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R042	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R043	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R044	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R045	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R047	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R048	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R049	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R051	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R053	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R054	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R056	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R057	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R058	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R059	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R060	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R061	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R062	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R063	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R064	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R065	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R066	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R067	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R068	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R069	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R070	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R072	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R073	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R074	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R078	NDC31HJ-100X	C CAPACITOR	10pF 50V J
R084	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R086	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R087	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R088	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R089	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R121	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R124	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R125	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R126	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R127	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R128	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R135	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R141	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R142	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R143	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R146	NDC31HJ-100X	C CAPACITOR	10pF 50V J
R147	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R151	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R152	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R153	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R154	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R155	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R156	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R157	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R158	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R159	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R160	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R161	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R164	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R165	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R166	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R167	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R171	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R172	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R173	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R175	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R176	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R177	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R181	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R182	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R183	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R184	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R185	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R186	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R188	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R189	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
L001	NQL092K-4R7X	COIL	4.7uH K
L002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L003	NQL092K-4R7X	COIL	4.7uH K
L005	NQL092K-4R7X	COIL	4.7uH K
L006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L008	NQL092K-4R7X	COIL	4.7uH K
L009	NQL79GM-4R7X	COIL	4.7uH M
L010	NQL092K-4R7X	COIL	4.7uH K
L011	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L012	NQL092K-4R7X	COIL	4.7uH K
L013	NQL092K-4R7X	COIL	4.7uH K
L014	NQL092K-4R7X	COIL	4.7uH K
L015	NQL914M-4R7X	COIL	4.7uH M
L016	NQR0567-001X	FERRITE BEADS	
L017	NQL092K-1R5X	COIL	1.5uH K
L018	NQL092K-1R5X	COIL	1.5uH K
L019	NQL092K-1R5X	COIL	1.5uH K
L020	NQL092K-1R5X	COIL	1.5uH K
L021	NQL092K-1R5X	COIL	1.5uH K
L022	NQL092K-1R5X	COIL	1.5uH K
L023	NQL092K-1R5X	COIL	1.5uH K
L024	NQL092K-1R5X	COIL	1.5uH K
CN004	QGB2023L1-30X	CONNECTOR	B-B (1-30)
CN005	QGB2023L1-30X	CONNECTOR	B-B (1-30)
K001	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
K002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K004	NQR0389-003X	FERRITE BEADS	
LC001	NQR0415-003X	EMI FILTER	0.47uF 16V M
LC002	NQR0415-003X	EMI FILTER	0.47uF 16V M
X001	NAX0644-001X	CRYSTAL	6.000000MHz

SUB TUNER P.W. BOARD ASS'Y (SMM0R251A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC0101	BU2098F-X	IC	
C0004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C0005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C0010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C0011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0101	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C0102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
R0003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0103	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0104	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0108	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0109	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
L0001	QQL244K-270Z	PEAKING COIL	27uH K
L0002	QQL244K-100Z	PEAKING COIL	10uH K
CN012	QGB1505K1-25	CONNECTOR	B-B (1-25)
TU0001	QAU0393-001	TUNER	SUB

AV SW P.W. BOARD ASS'Y (SMM0S251A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC101	CXA2069Q	IC	
IC601	NJM2777M-X	IC	
IC703	M52055FP-X	IC	
IC801	TB1274AF	IC	
IC802	TC90A69AF-X	IC	
IC803	BA50BC0FP-X	IC	
Q101	2SC3928A/QR/-X	TRANSISTOR	
Q105	KTC3199/YG/-T	TRANSISTOR	
Q301	2SC3928A/QR/-X	TRANSISTOR	
Q311	2SC3928A/QR/-X	TRANSISTOR	
Q321	2SC3928A/QR/-X	TRANSISTOR	
Q331	2SC3928A/QR/-X	TRANSISTOR	
Q341	2SC3928A/QR/-X	TRANSISTOR	
Q351	2SC3928A/QR/-X	TRANSISTOR	
Q505	UN2213-X	DIGI TRANSISTOR	
Q651	UN2226-X	DIGI TRANSISTOR	
Q652	UN2226-X	DIGI TRANSISTOR	
Q653	2SA1530A/QR/-X	TRANSISTOR	
Q801	2SA1530A/QR/-X	TRANSISTOR	
Q802	2SA1530A/QR/-X	TRANSISTOR	
Q851	2SC3928A/QR/-X	TRANSISTOR	
Q853	2SA1530A/QR/-X	TRANSISTOR	
Q854	2SC3928A/QR/-X	TRANSISTOR	
Q855	2SA1530A/QR/-X	TRANSISTOR	
Q858	2SC3928A/QR/-X	TRANSISTOR	
Q859	2SA1530A/QR/-X	TRANSISTOR	
Q862	2SC3928A/QR/-X	TRANSISTOR	
Q863	2SC3928A/QR/-X	TRANSISTOR	
D101	MA8056/M/-X	Z DIODE	
D161	MA8120/M/-X	Z DIODE	
D162	MA8120/M/-X	Z DIODE	
D163	MA8120/M/-X	Z DIODE	
D164	MA8120/M/-X	Z DIODE	
D165	MA8120/M/-X	Z DIODE	
D166	MA8120/M/-X	Z DIODE	
C101	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C102	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C111	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C112	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C121	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C122	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C134	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C135	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C136	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C137	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C138	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C139	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C140	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C141	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C142	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C143	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C144	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C146	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C147	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C148	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C149	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C150	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C151	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C152	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C153	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C154	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C161	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C163	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C165	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C167	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C168	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C169	NCB21AK-105X	C CAPACITOR	1uF 10V K
C170	NCB21AK-105X	C CAPACITOR	1uF 10V K
C171	NCB21AK-105X	C CAPACITOR	1uF 10V K
C172	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C173	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C174	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C175	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C176	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C177	NCB21AK-105X	C CAPACITOR	1uF 10V K
C178	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C179	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C185	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C190	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C301	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C302	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C311	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C321	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C331	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C332	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C341	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C351	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C505	QETN1CM-476Z	E CAPACITOR	47uF 16V M

⚠Ref No.	Part No.	Part Name	Description Local
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C510	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C511	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C512	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C519	NCB21CK-105X	C CAPACITOR	1uF 16V K
C520	NCB21CK-105X	C CAPACITOR	1uF 16V K
C521	NCB21CK-105X	C CAPACITOR	1uF 16V K
C522	NCB21CK-105X	C CAPACITOR	1uF 16V K
C523	NCB21CK-105X	C CAPACITOR	1uF 16V K
C524	NCB21CK-105X	C CAPACITOR	1uF 16V K
C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C602	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C603	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C604	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C605	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C606	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C607	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C611	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C612	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C651	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C652	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C654	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C655	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C656	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C801	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C802	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C803	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C804	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C805	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C806	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C807	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C808	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C809	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C813	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C814	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C818	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C819	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C820	NCB31AK-474X	C CAPACITOR	0.47uF 10V K
C821	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C822	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C823	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C824	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C826	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C827	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C835	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C836	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C837	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C850	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C851	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C852	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C853	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C854	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C855	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C856	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C857	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C858	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C859	NCB31AK-474X	C CAPACITOR	0.47uF 10V K
C860	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C861	NDC31HJ-681X	C CAPACITOR	680pF 50V J
C862	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C863	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C864	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C865	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C866	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C868	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C869	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C870	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C872	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C873	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C874	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C875	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C876	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C877	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C878	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C879	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C880	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C881	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C882	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C883	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C884	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C885	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C886	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C887	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C888	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C889	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C890	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C891	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C892	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C894	NDC31HJ-180X	C CAPACITOR	18pF 50V J
R101	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R102	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R103	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R104	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R105	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R106	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R107	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R111	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R112	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R113	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R114	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R115	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R119	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R120	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R121	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R142	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R143	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R144	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R145	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R146	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R147	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R148	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R149	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R150	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R151	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R152	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R153	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R154	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R155	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R156	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R161	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R162	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R163	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R164	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R165	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R166	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R168	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R169	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R170	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R171	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R173	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R174	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R175	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R176	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R177	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R179	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R182	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R183	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
R184	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R185	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R186	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R187	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R190	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R191	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R234	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R241	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R242	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R301	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R302	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R303	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R311	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R312	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R313	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R314	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R321	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R322	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R323	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R324	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R331	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R332	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R333	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R334	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R341	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R342	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R343	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R344	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R351	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R352	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R353	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R354	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R521	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R525	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R527	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R528	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R529	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R601	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R602	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R603	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R604	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R606	QRL039J-330	OMF RESISTOR	33Ω 3W J
R651	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R652	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R656	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R801	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R803	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R804	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R805	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R806	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R807	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J
R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R809	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R816	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R817	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R818	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R819	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R851	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R852	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R853	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R854	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R855	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R856	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R857	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R859	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R860	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R861	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R862	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R863	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R864	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R865	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R866	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R867	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R869	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R873	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R874	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R875	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R876	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R877	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R879	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R884	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R885	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R886	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R887	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R888	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R889	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R893	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
L807	NQR0413-003X	FERRITE BEADS	
L808	NQR0413-003X	FERRITE BEADS	
L809	NQR0413-003X	FERRITE BEADS	
L851	NQL092K-6R8X	COIL	6.8uH K
L852	NQL092K-6R8X	COIL	6.8uH K
L853	NQL092K-6R8X	COIL	6.8uH K
L854	NQL092M-270X	P COIL	27uH M
L861	NQL79GM-220X	COIL	22uH M
L862	NQL914M-4R7X	COIL	4.7uH M
L863	NQL914M-4R7X	COIL	4.7uH M
L864	NQL79GM-101X	COIL	100uH M
L865	NQL79GM-220X	COIL	22uH M
L866	NQL79GM-220X	COIL	22uH M
L867	NQL79GM-220X	COIL	22uH M
L868	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
CN006	QGB1505K1-25	CONNECTOR	B-B (1-25)
CN007	QGB1505K1-35	CONNECTOR	B-B (1-35)
J101	QNZ0438-001	AV JACK	VIDEO-1 S/V/L/R IN
J102	QNN0463-001	PIN JACK	VIDEO-2 COMP IN
J103	QNN0551-001	PIN JACK	VIDEO-2 V/L/R IN
J104	QNN0463-001	PIN JACK	VIDEO-3 COMP IN
J105	QNN0551-001	PIN JACK	VIDEO-3 V/L/R IN
J106	QNN0551-001	PIN JACK	V/L/R OUT
J107	QNS0229-001	3.5 JACK	AV COMPULINK
X801	QAX0305-001	CRYSTAL	16.200MHz

DIST P.W. BOARD ASS'Y (SMM0Z251A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC005	SN74AHCT1G08V-X	IC	
IC013	SN74AHC2G34T-X	IC	
IC104	SN74AHC2G74T-X	IC	
IC105	SN74AHC1G08V-X	IC	
IC106	S-80828CLNB-G-W	IC	
IC107	LP3964EMP-ADJ-X	IC	
IC108	PQ070XZ02Z-X	IC	
IC205	SN74LVC2G126T-X	IC	
IC206	SN74LVC1G126V-X	IC	
IC213	SN74AHC2G74T-X	IC	
IC301	MM1563DF-X	IC	
IC631	SN74AHC1G66HV-X	IC	
IC1001	JCC5055	IC	
IC1002	K4D263238F-UC50	IC	
IC1003	K4D263238F-UC50	IC	
IC1004	LP2995M-X	IC	
IC1005	MM1563DF-X	IC	
IC1301	AN15394A	IC	
IC1401	SN74HC32NS-X	IC(DIGITAL)	
IC3001	TC90A92AFG	IC	
IC3002	R1141Q151D-X	IC	
IC3003	MM1572FN-X	IC	
Q1301	2SA1022/BC/-X	TRANSISTOR	
Q1302	2SA1022/BC/-X	TRANSISTOR	
Q1303	2SA1022/BC/-X	TRANSISTOR	
Q1304	2SC3837K/NP/-X	TRANSISTOR	
Q1305	2SC3837K/NP/-X	TRANSISTOR	
Q1306	2SC3837K/NP/-X	TRANSISTOR	
Q1307	2SC3837K/NP/-X	TRANSISTOR	
Q1308	2SC3837K/NP/-X	TRANSISTOR	
Q1309	2SC3837K/NP/-X	TRANSISTOR	
Q1312	2SC3928A/QR/-X	TRANSISTOR	
Q1313	2SC3928A/QR/-X	TRANSISTOR	
Q1314	2SC3928A/QR/-X	TRANSISTOR	
Q1315	2SA1022/BC/-X	TRANSISTOR	
Q1316	2SC3928A/QR/-X	TRANSISTOR	
Q1317	2SC3928A/QR/-X	TRANSISTOR	
Q1717	2SK1830-X	MOS FET	
Q1718	2SK1830-X	MOS FET	
Q3001	UN2213-X	DIGI TRANSISTOR	
Q3002	2SC3928A/QR/-X	TRANSISTOR	
Q3101	2SC3928A/QR/-X	TRANSISTOR	
Q3102	2SC3928A/QR/-X	TRANSISTOR	
Q3103	2SA1530A/QR/-X	TRANSISTOR	
Q3121	2SC3928A/QR/-X	TRANSISTOR	
Q3122	2SC3928A/QR/-X	TRANSISTOR	
Q3123	2SA1530A/QR/-X	TRANSISTOR	
Q3141	2SC3928A/QR/-X	TRANSISTOR	
Q3142	2SC3928A/QR/-X	TRANSISTOR	
Q3143	2SA1530A/QR/-X	TRANSISTOR	
Q3161	2SC3928A/QR/-X	TRANSISTOR	
Q3162	2SC3928A/QR/-X	TRANSISTOR	
Q3163	2SA1530A/QR/-X	TRANSISTOR	
QB003	UMX1N-W	PAIR TRANSISTOR	
QB007	UMX1N-W	PAIR TRANSISTOR	
QB010	UMX1N-W	PAIR TRANSISTOR	
QB011	2SC3837K/NP/-X	TRANSISTOR	
QB012	2SA1022/BC/-X	TRANSISTOR	
QB014	2SA1022/BC/-X	TRANSISTOR	
QB015	2SC3928A/QR/-X	TRANSISTOR	
QB017	UMX1N-W	PAIR TRANSISTOR	
QB018	UMX1N-W	PAIR TRANSISTOR	
QB019	2SA1022/BC/-X	TRANSISTOR	
QB021	2SC3837K/NP/-X	TRANSISTOR	
QB022	2SA1022/BC/-X	TRANSISTOR	
QB024	2SA1022/BC/-X	TRANSISTOR	
QB025	2SC3928A/QR/-X	TRANSISTOR	
QB027	UMX1N-W	PAIR TRANSISTOR	
QB028	UMX1N-W	PAIR TRANSISTOR	
QB029	2SA1022/BC/-X	TRANSISTOR	
QB031	2SC3837K/NP/-X	TRANSISTOR	
QB032	2SA1022/BC/-X	TRANSISTOR	
QB034	2SA1022/BC/-X	TRANSISTOR	
QB035	2SC3928A/QR/-X	TRANSISTOR	
QB037	UMX1N-W	PAIR TRANSISTOR	
QB038	UMX1N-W	PAIR TRANSISTOR	
QB039	2SA1022/BC/-X	TRANSISTOR	
QB211	2SA1022/BC/-X	TRANSISTOR	
QB212	2SC3837K/NP/-X	TRANSISTOR	
QB213	2SC3837K/NP/-X	TRANSISTOR	
QB214	2SC3837K/NP/-X	TRANSISTOR	
QB215	2SC3837K/NP/-X	TRANSISTOR	
QB241	2SA1022/BC/-X	TRANSISTOR	
QB242	2SC3837K/NP/-X	TRANSISTOR	

⚠Ref No.	Part No.	Part Name	Description Local
QB243	2SC3837K/NP/-X	TRANSISTOR	
QB244	2SC3837K/NP/-X	TRANSISTOR	
QB245	2SC3837K/NP/-X	TRANSISTOR	
QB271	2SA1022/BC/-X	TRANSISTOR	
QB272	2SC3837K/NP/-X	TRANSISTOR	
QB273	2SC3837K/NP/-X	TRANSISTOR	
QB274	2SC3837K/NP/-X	TRANSISTOR	
QB275	2SC3837K/NP/-X	TRANSISTOR	
QB289	2SC3928A/QR/-X	TRANSISTOR	
QB290	2SA1530A/QR/-X	TRANSISTOR	
QB291	2SC3928A/QR/-X	TRANSISTOR	
QB292	2SA1530A/QR/-X	TRANSISTOR	
QB631	2SA1022/BC/-X	TRANSISTOR	
QB632	2SC3837K/NP/-X	TRANSISTOR	
QB633	2SC3837K/NP/-X	TRANSISTOR	
QB634	2SC3837K/NP/-X	TRANSISTOR	
QB635	2SC3837K/NP/-X	TRANSISTOR	
QB636	2SA1022/BC/-X	TRANSISTOR	
QB637	2SC3837K/NP/-X	TRANSISTOR	
D1301	MA111-X	SI DIODE	
D1302	MA111-X	SI DIODE	
D1303	MA111-X	SI DIODE	
D1309	MA111-X	SI DIODE	
D1310	MA111-X	SI DIODE	
D1405	MA111-X	SI DIODE	
D1406	MA111-X	SI DIODE	
D3001	EC30HA03L-X	SB DIODE	
D3002	EC30HA03L-X	SB DIODE	
D3004	MA111-X	SI DIODE	
C1001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1003	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1013	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1017	NEH71CM-106X	E CAPACITOR	10uF 16V M
C1018	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1019	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1020	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1021	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1022	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1024	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1025	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1027	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C1028	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1029	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1030	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1037	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1038	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1041	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1043	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1045	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1046	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1048	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1049	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1050	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1053	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C1054	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C1056	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C1058	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C1061	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1062	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1063	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1064	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1067	NEH71CM-106X	E CAPACITOR	10uF 16V M

⚠Ref No.	Part No.	Part Name	Description Local
C1068	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1069	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1070	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1071	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C1072	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1074	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1075	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1076	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1077	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1078	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1079	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1080	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1081	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1082	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1083	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1084	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1085	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1086	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1087	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1088	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1089	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1090	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1091	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1092	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1093	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1094	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1095	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1096	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1097	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1098	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1099	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1100	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1105	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1108	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1110	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1112	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1113	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1114	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1115	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1116	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1117	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1118	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1119	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1120	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1121	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1122	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1124	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1125	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1127	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1129	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1130	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1131	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1132	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1133	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1134	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1135	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C1141	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1142	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1143	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1144	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1145	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1146	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1147	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1148	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1149	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1301	NEN51HM-105X	BP E CAPACITOR	1uF 50V M
C1302	NEN51HM-105X	BP E CAPACITOR	1uF 50V M
C1303	NEN51HM-105X	BP E CAPACITOR	1uF 50V M
C1304	NEH71AM-107X	E CAPACITOR	100uF 10V M
C1305	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
C1306	NEH71CM-476X	E CAPACITOR	47uF 16V M
C1307	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1308	NEH71CM-476X	E CAPACITOR	47uF 16V M
C1309	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1310	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1311	NCF31AZ-105X	C CAPACITOR	1uF 10V Z

⚠Ref No.	Part No.	Part Name	Description Local
C1312	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1313	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1314	NCB30JK-105X	C CAPACITOR	1uF 6.3V K
C1315	NCB30JK-105X	C CAPACITOR	1uF 6.3V K
C1316	NCB30JK-105X	C CAPACITOR	1uF 6.3V K
C1317	NEH71HM-335X	E CAPACITOR	3.3uF 50V M
C1318	NEH71HM-335X	E CAPACITOR	3.3uF 50V M
C1319	NEH71HM-335X	E CAPACITOR	3.3uF 50V M
C1320	NEH71HM-105X	E CAPACITOR	1uF 50V M
C1321	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C1323	NEH71HM-105X	E CAPACITOR	1uF 50V M
C1324	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1325	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1326	NCF11EZ-105X	C CAPACITOR	1uF 25V Z
C1327	NCF11EZ-105X	C CAPACITOR	1uF 25V Z
C1328	NCF11EZ-105X	C CAPACITOR	1uF 25V Z
C1329	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C1330	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C1331	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C1332	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1333	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1336	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1337	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1338	NEH71HM-335X	E CAPACITOR	3.3uF 50V M
C1339	NEH71AM-107X	E CAPACITOR	100uF 10V M
C1340	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1341	NEH71HM-225X	E CAPACITOR	2.2uF 50V M
C1342	NEH71CM-106X	E CAPACITOR	10uF 16V M
C1343	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1344	NDC31HJ-220X	C CAPACITOR	22pF 50V J
C1401	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1404	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C3001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3002	NEH71EM-226X	E CAPACITOR	22uF 25V M
C3003	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3005	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C3006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3007	NEH71CM-106X	E CAPACITOR	10uF 16V M
C3008	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3009	NDC31HJ-220X	C CAPACITOR	22pF 50V J
C3010	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C3011	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C3012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3014	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3015	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3016	NEH71CM-106X	E CAPACITOR	10uF 16V M
C3017	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3018	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3020	NEH71CM-476X	E CAPACITOR	47uF 16V M
C3021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3022	NEH71CM-476X	E CAPACITOR	47uF 16V M
C3023	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3024	NEH71CM-476X	E CAPACITOR	47uF 16V M
C3025	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3026	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3027	NEH71CM-106X	E CAPACITOR	10uF 16V M
C3028	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3029	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3030	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3031	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3032	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3033	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3034	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3035	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C3036	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C3037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C3038	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3039	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3040	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3041	NEH71EM-226X	E CAPACITOR	22uF 25V M
C3042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C3043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3044	NEH71EM-226X	E CAPACITOR	22uF 25V M
C3045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C3046	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3047	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3048	NEN51HM-474X	BP E CAPACITOR	0.47uF 50V M
C3049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3050	NEN51HM-474X	BP E CAPACITOR	0.47uF 50V M
C3051	NEN51HM-474X	BP E CAPACITOR	0.47uF 50V M
C3052	NCB30JK-105X	C CAPACITOR	1uF 6.3V K
C3053	NEH71CM-476X	E CAPACITOR	47uF 16V M
C3054	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C3055	NEH71CM-476X	E CAPACITOR	47uF 16V M
C3056	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3057	NCB30JK-105X	C CAPACITOR	1uF 6.3V K
C3058	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C3059	NEH71CM-476X	E CAPACITOR	47uF 16V M
C3060	NDC31HJ-4R0X	C CAPACITOR	4pF 50V J
C3101	NEN51AM-336X	BP E CAPACITOR	33uF 10V M
C3102	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3103	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C3104	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3105	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3106	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C3107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3108	NEH71CM-476X	E CAPACITOR	47uF 16V M
C3121	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C3122	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3123	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C3124	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3125	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3126	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C3141	NEN51AM-336X	BP E CAPACITOR	33uF 10V M
C3142	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3143	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C3144	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3145	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3146	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C3161	NEN51AM-336X	BP E CAPACITOR	33uF 10V M
C3162	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3163	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C3164	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3165	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3166	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
CB002	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J
CB005	NDC31HJ-680X	C CAPACITOR	68pF 50V J
CB006	NDC31HJ-270X	C CAPACITOR	27pF 50V J
CB008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB012	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J
CB014	NDC31HJ-270X	C CAPACITOR	27pF 50V J
CB015	NDC31HJ-680X	C CAPACITOR	68pF 50V J
CB016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB017	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB019	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J
CB021	NDC31HJ-270X	C CAPACITOR	27pF 50V J
CB022	NDC31HJ-680X	C CAPACITOR	68pF 50V J
CB023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB024	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB046	NEH71CM-106X	E CAPACITOR	10uF 16V M
CB051	NEN51AM-336X	BP E CAPACITOR	33uF 10V M
CB052	NEN51AM-336X	BP E CAPACITOR	33uF 10V M
CB053	NEN51AM-336X	BP E CAPACITOR	33uF 10V M
CB070	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB111	NEH71CM-106X	E CAPACITOR	10uF 16V M
CB112	NEN51AM-106X	BP E CAPACITOR	10uF 10V M
CB113	NEH71CM-106X	E CAPACITOR	10uF 16V M
CB114	NDC31HJ-820X	C CAPACITOR	82pF 50V J
CB115	NDC31HJ-820X	C CAPACITOR	82pF 50V J
CB116	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB117	NDC31HJ-331X	C CAPACITOR	330pF 50V J
CB119	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB120	NBE71CM-476X	TA E CAPACITOR	47uF 16V M
CB121	NDC31HJ-560X	C CAPACITOR	56pF 50V J
CB141	NEH71CM-106X	E CAPACITOR	10uF 16V M
CB142	NEN51AM-106X	BP E CAPACITOR	10uF 10V M
CB143	NEH71CM-106X	E CAPACITOR	10uF 16V M
CB144	NDC31HJ-820X	C CAPACITOR	82pF 50V J
CB145	NDC31HJ-820X	C CAPACITOR	82pF 50V J
CB146	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB147	NDC31HJ-331X	C CAPACITOR	330pF 50V J
CB149	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB150	NBE71CM-476X	TA E CAPACITOR	47uF 16V M
CB151	NDC31HJ-560X	C CAPACITOR	56pF 50V J
CB171	NEH71CM-106X	E CAPACITOR	10uF 16V M
CB172	NEN51AM-106X	BP E CAPACITOR	10uF 10V M
CB173	NEH71HM-106X	E CAPACITOR	10uF 50V M
CB174	NDC31HJ-820X	C CAPACITOR	82pF 50V J
CB175	NDC31HJ-820X	C CAPACITOR	82pF 50V J
CB176	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB177	NDC31HJ-331X	C CAPACITOR	330pF 50V J
CB179	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB180	NBE71CM-476X	TA E CAPACITOR	47uF 16V M
CB181	NDC31HJ-560X	C CAPACITOR	56pF 50V J
CB190	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB302	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
CB303	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
CB321	NEH71CM-106X	E CAPACITOR	10uF 16V M
CB322	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
CB323	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K

⚠Ref No.	Part No.	Part Name	Description Local
CB324	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB325	NDC31HJ-471X	C CAPACITOR	470pF 50V J
CB357	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB359	NDC31HJ-221X	C CAPACITOR	220pF 50V J
CB360	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
CB361	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB364	NBE71CM-476X	TA E CAPACITOR	47uF 16V M
CB365	NBE71CM-476X	TA E CAPACITOR	47uF 16V M
CB371	NCB30JK-105X	C CAPACITOR	1uF 6.3V K
CB375	NDC31HJ-101X	C CAPACITOR	100pF 50V J
CB376	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
CB379	NDC31HJ-101X	C CAPACITOR	100pF 50V J
CB381	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB382	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
CB421	NEH71CM-106X	E CAPACITOR	10uF 16V M
CB422	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB428	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB429	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB515	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB517	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J
CB519	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J
CB521	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
CB522	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB523	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB524	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB541	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB542	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB543	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB545	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB547	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J
CB549	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J
CB551	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB553	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB571	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB572	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB573	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB575	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB577	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J
CB579	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J
CB581	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB582	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB583	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB631	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB633	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB635	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB636	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J
CB638	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J
CB640	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
CB641	NEH71CM-476X	E CAPACITOR	47uF 16V M
CB642	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB643	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB644	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
CB645	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
CB646	NDC31HJ-390X	C CAPACITOR	39pF 50V J
CB647	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
CB1231	NDC31HJ-560X	C CAPACITOR	56pF 50V J
CB1232	NDC31HJ-560X	C CAPACITOR	56pF 50V J
R1001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1010	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1013	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1015	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1017	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1018	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J
R1019	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J
R1020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1024	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1025	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1026	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1028	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1030	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1032	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R1034	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1038	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1041	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1043	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J
R1044	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
R1045	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1046	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1048	NRSA63J-3R3X	MG RESISTOR	3.3Ω 1/16W J
R1049	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1050	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1051	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D
R1052	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D
R1053	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R1054	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D
R1055	NRSA63J-3R3X	MG RESISTOR	3.3Ω 1/16W J
R1056	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J
R1057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1061	NRSA63J-3R3X	MG RESISTOR	3.3Ω 1/16W J
R1062	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J
R1069	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1070	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1085	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1086	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1087	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1088	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1089	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1091	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1092	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1096	NDC31HJ-150X	C CAPACITOR	15pF 50V J
R1101	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1102	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1103	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1104	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1105	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1106	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1107	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1108	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1109	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1110	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1111	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1112	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1113	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1114	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1115	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1116	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1202	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1204	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1206	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1208	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1210	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1211	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1213	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1215	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1217	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1219	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1222	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1301	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R1308	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1309	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R1310	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R1311	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R1312	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R1313	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1314	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1315	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1316	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1317	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1318	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1319	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1320	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1321	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1322	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1323	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1324	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1325	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1326	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1327	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1328	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1329	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1330	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1331	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1332	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1333	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R1334	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D
R1335	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D
R1336	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
R1338	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1340	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D
R1341	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1342	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D
R1343	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D
R1344	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1345	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D
R1346	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1347	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1348	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1349	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1350	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1351	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1352	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1353	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1354	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1355	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1360	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1361	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1362	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1363	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1373	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1374	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1376	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R1377	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1378	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1379	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1380	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1381	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1382	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1383	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1384	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1385	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1387	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1403	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1407	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1408	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1409	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1410	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1411	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1429	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1857	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1859	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3001	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R3002	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D
R3003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R3005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3008	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R3010	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R3011	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R3012	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3013	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3014	NQL093K-R47X	COIL	0.47uH K
R3101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3104	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3105	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R3107	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R3109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3110	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R3111	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3121	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3123	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3124	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3125	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R3127	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R3129	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3130	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R3131	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3141	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3142	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3143	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3144	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3145	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R3147	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R3149	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3150	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R3151	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3161	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3162	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3163	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3164	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3165	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R3167	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R3169	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3170	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R3171	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3172	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RA015	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA016	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA017	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA018	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA019	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA020	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA1001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA1002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA1003	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA1004	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA1005	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA1006	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA1007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA1008	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA1009	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
RA1010	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA1012	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA1101	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1102	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1103	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1104	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1105	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1106	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1107	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1108	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1109	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1110	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1111	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1112	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1113	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1114	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1115	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1116	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1117	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4
RA1118	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4
RA1119	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4
RA1120	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4
RA1201	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1202	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1203	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1204	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1205	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1206	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1207	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1208	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1209	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1210	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1211	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1212	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1301	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1302	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1303	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1304	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1305	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1306	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1307	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1308	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1309	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1310	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1311	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA1312	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
RA3001	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA3002	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA3003	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA3004	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
RA3005	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
RA3006	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
RA3007	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
RA3008	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
RA3009	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
RA3010	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
RB001	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
RB002	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
RB003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
RB005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB008	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
RB010	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB012	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
RB013	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
RB016	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
RB017	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
RB018	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB020	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB023	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
RB025	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB027	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
RB028	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
RB029	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
RB030	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
RB031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB033	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB036	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
RB038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB040	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
RB041	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
RB059	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB064	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB092	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB093	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB095	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB110	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
RB111	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
RB113	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
RB116	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB117	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB120	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB121	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB124	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB125	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
RB128	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB129	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB130	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB131	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB132	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB135	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB136	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB137	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB138	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB140	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
RB141	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
RB143	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
RB146	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB147	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB150	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB152	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB153	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
RB154	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB155	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB158	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB159	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB160	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB162	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB163	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB165	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB166	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB167	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB168	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB170	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
RB171	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
RB173	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
RB176	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB177	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB180	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB181	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB182	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB183	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
RB184	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB185	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB188	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB189	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB190	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB191	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB192	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB193	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB195	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB196	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB197	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB198	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB321	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB346	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB347	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB349	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB350	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB351	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB352	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB353	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB354	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
RB355	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
RB357	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB361	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB362	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
RB363	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
RB364	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D
RB365	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB366	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D
RB367	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB368	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D
RB371	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
RB379	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB382	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB450	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
RB451	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB462	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB463	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB464	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB465	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB466	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
RB472	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB475	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB511	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RB512	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB513	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
RB514	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
RB515	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB516	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB517	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
RB518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB519	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
RB520	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
RB521	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB522	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB523	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB524	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
RB525	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB526	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB527	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
RB528	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
RB529	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
RB530	NRSA63D-681X	MG RESISTOR	680Ω 1/16W D
RB531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB532	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB533	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB534	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
RB537	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB541	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RB542	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB543	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
RB544	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
RB545	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB546	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB547	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
RB548	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
RB549	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
RB550	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB551	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB552	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB554	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
RB555	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB556	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D
RB557	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
RB558	NRSA63D-561X	MG RESISTOR	560Ω 1/16W D
RB559	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB560	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB561	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB571	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
RB572	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB573	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
RB574	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
RB575	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB576	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB577	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
RB578	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
RB579	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
RB580	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB581	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB582	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB584	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
RB585	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB586	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D
RB587	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
RB588	NRSA63D-561X	MG RESISTOR	560Ω 1/16W D
RB589	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB590	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB591	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB592	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB631	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RB632	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB633	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
RB634	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
RB635	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB636	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
RB638	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB639	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
RB640	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB641	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
RB642	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB643	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB644	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB645	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB646	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB647	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB648	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
RB649	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB650	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
RB651	NRSA63D-821X	MG RESISTOR	820Ω 1/16W D
RB652	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB653	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB654	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB655	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB656	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB658	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB659	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB660	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
RB1864	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB1865	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
L1004	NQR0489-002X	FERRITE BEADS	
L1005	NQR0489-002X	FERRITE BEADS	
L1006	NQR0489-002X	FERRITE BEADS	
L1007	NQR0489-002X	FERRITE BEADS	
L1008	NQR0489-002X	FERRITE BEADS	
L1009	NQR0489-002X	FERRITE BEADS	
L1012	NQR0489-002X	FERRITE BEADS	
L1014	NQR0489-002X	FERRITE BEADS	
L1015	NQR0489-002X	FERRITE BEADS	
L1017	NQR0489-002X	FERRITE BEADS	
L1301	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3001	NQL79GM-330X	COIL	33uH M
L3002	NQL79GM-470X	COIL	47uH M
L3003	NQL092K-1R5X	COIL	1.5uH K
L3004	NQL79GM-100X	COIL	10uH M
L3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3007	NQL79GM-220X	COIL	22uH M
L3008	NQL79GM-220X	COIL	22uH M
L3009	NQL79GM-330X	COIL	33uH M
L3010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3011	NQL79GM-470X	COIL	47uH M
L3101	NQL092K-6R8X	COIL	6.8uH K
L3102	NQR0489-002X	FERRITE BEADS	
L3121	NQL092K-6R8X	COIL	6.8uH K
L3141	NQL092K-6R8X	COIL	6.8uH K
L3161	NQL092K-6R8X	COIL	6.8uH K
LB001	NQL092K-2R2X	COIL	2.2uH K
LB002	NQL092K-2R2X	COIL	2.2uH K
LB003	NQL092K-2R2X	COIL	2.2uH K
LB021	NQR0489-002X	FERRITE BEADS	
LB202	NQR0489-002X	FERRITE BEADS	
LB203	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LB211	NQL092K-2R2X	COIL	2.2uH K
LB241	NQL092K-2R2X	COIL	2.2uH K
LB271	NQL092K-2R2X	COIL	2.2uH K
LB301	NQR0489-002X	FERRITE BEADS	
LB302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LB631	NQL092K-2R2X	COIL	2.2uH K
CN008	QGB1509K1-55T	CONNECTOR	B-B (1-55)
CN009	QGB1509K1-55T	CONNECTOR	B-B (1-55)
K1003	NQR0489-002X	FERRITE BEADS	
K1004	NQR0489-002X	FERRITE BEADS	
K1005	NQR0489-002X	FERRITE BEADS	
K1006	NQR0489-002X	FERRITE BEADS	
K1009	NQR0489-002X	FERRITE BEADS	
K1712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K3001	NQR0489-002X	FERRITE BEADS	
K3002	NQR0489-002X	FERRITE BEADS	
K3003	NQR0489-002X	FERRITE BEADS	
K3004	NQR0489-002X	FERRITE BEADS	
K3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LC025	NQR0483-005X	EMI FILTER	100uF 25V Z
LC026	NQR0483-005X	EMI FILTER	100uF 25V Z
LC027	NQR0483-005X	EMI FILTER	100uF 25V Z
LC101	NQR0483-005X	EMI FILTER	100uF 25V Z
LC102	NQR0483-005X	EMI FILTER	100uF 25V Z
LC103	NQR0483-005X	EMI FILTER	100uF 25V Z
LC1015	NQR0416-001X	EMI FILTER	240pF 16V M
LC1016	NQR0416-001X	EMI FILTER	240pF 16V M
LC1720	NQR0416-001X	EMI FILTER	240pF 16V M
LC1721	NQR0416-001X	EMI FILTER	240pF 16V M
LC3101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LC3121	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LC3141	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LC3161	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
X201	NAX0526-001X	CXO	74.1758MHz
X1001	NAX0635-001X	CXO	
X3001	NAX0642-001X	CRYSTAL	

PRINTED WIRING BOARD PARTS LIST [HV-Z29J4/S]

MAIN P.W. BOARD ASS'Y (SMM-1252A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC101	MSP3411GQAC1201	IC	
IC201	TA1370FG-X	IC	
IC202	SN74AHC1G08V-X	IC	
IC251	AN15851B-W	IC	
IC252	MM1503XN-X	IC	
IC402	SN74HC14NS-X	IC	
IC551	LA6515	IC	
IC601	HA17558AF-X	IC	
IC641	AN7585	IC	
IC701	CXA1875AM-X	IC	
IC721	BU2098F-X	IC	
IC781	ATE256-Z29J4S	IC	(SERVICE)
IC901	BA12T	IC	
IC902	BA09T	IC	
IC903	SI-8050JD-W	IC	
IC904	SI-8033JD-W	IC	
IC906	BA80BC0FP-X	IC	
Q001	UN2213-X	DIGI TRANSISTOR	
Q101	2SC3928A/QR/-X	TRANSISTOR	
Q102	2SC3928A/QR/-X	TRANSISTOR	
Q103	2SC3928A/QR/-X	TRANSISTOR	
Q104	UN2213-X	DIGI TRANSISTOR	
Q257	2SC3928A/QR/-X	TRANSISTOR	
Q258	2SC3928A/QR/-X	TRANSISTOR	
Q259	2SC3928A/QR/-X	TRANSISTOR	
Q266	2SC3928A/QR/-X	TRANSISTOR	
Q267	2SC3928A/QR/-X	TRANSISTOR	
Q268	2SC3928A/QR/-X	TRANSISTOR	
Q351	2SC3928A/QR/-X	TRANSISTOR	
Q361	2SC3928A/QR/-X	TRANSISTOR	
Q561	2SA1530A/QR/-X	TRANSISTOR	
Q562	2SC3928A/QR/-X	TRANSISTOR	
Q563	2SA1530A/QR/-X	TRANSISTOR	
Q564	2SC3928A/QR/-X	TRANSISTOR	
Q652	2SA1530A/QR/-X	TRANSISTOR	
Q653	2SA1530A/QR/-X	TRANSISTOR	
Q654	UN2226-X	DIGI TRANSISTOR	
Q655	UN2226-X	DIGI TRANSISTOR	
Q656	UN2226-X	DIGI TRANSISTOR	
Q657	UN2210-X	DIGI TRANSISTOR	
Q658	2SC3928A/QR/-X	TRANSISTOR	
Q659	UN2210-X	DIGI TRANSISTOR	
Q660	UN2212-X	DIGI TRANSISTOR	
Q681	2SA1530A/QR/-X	TRANSISTOR	
Q756	2SA1530A/QR/-X	TRANSISTOR	
D401	MA8039/H/-X	Z DIODE	
D421	MA8039/H/-X	Z DIODE	
D422	MA111-X	SI DIODE	
D561	MA8220/M/-X	Z DIODE	
D562	MA111-X	SI DIODE	
D601	MA8047/L/-X	Z DIODE	
D609	MA111-X	SI DIODE	
D641	MA8330/M/-X	Z DIODE	
D642	MA8330/M/-X	Z DIODE	
D643	MA8330/M/-X	Z DIODE	
D656	MA111-X	SI DIODE	
D657	MA111-X	SI DIODE	
D658	MA111-X	SI DIODE	
D659	MA111-X	SI DIODE	
D660	MA111-X	SI DIODE	
D661	MA111-X	SI DIODE	
D662	MA111-X	SI DIODE	
D663	MA111-X	SI DIODE	
D681	MA111-X	SI DIODE	
D682	MA111-X	SI DIODE	
D683	MA111-X	SI DIODE	
D684	MA111-X	SI DIODE	
D701	MA8033/H/-X	Z DIODE	
D702	MA8039/H/-X	Z DIODE	
D771	MA8056/M/-X	Z DIODE	
D772	MA8056/M/-X	Z DIODE	
D773	MA8056/M/-X	Z DIODE	
D774	MA8056/M/-X	Z DIODE	
D903	EC30HA03L-X	SB DIODE	
D904	EC30HA03L-X	SB DIODE	
D905	PTZ6.8B-X	Z DIODE	
D991	MA111-X	SI DIODE	
D992	MA111-X	SI DIODE	
D993	MA111-X	SI DIODE	
D994	MA111-X	SI DIODE	

⚠Ref No.	Part No.	Part Name	Description Local
C001	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C003	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C105	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C107	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C108	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C109	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C110	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C111	NDC31HJ-821X	C CAPACITOR	820pF 50V J
C112	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C113	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C114	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C115	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C116	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C117	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C118	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C119	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C120	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C124	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C125	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C126	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C127	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C128	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C129	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C130	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C131	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C132	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C133	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C140	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C141	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C142	NCB21AK-105X	C CAPACITOR	1uF 10V K
C144	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C145	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C153	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C201	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
C202	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C203	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C205	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C206	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C207	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C251	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C252	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C253	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C254	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C255	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C256	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C257	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C258	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C259	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C260	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C261	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C262	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C263	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C264	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C265	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C266	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C267	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C268	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C269	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C270	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C271	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C272	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C273	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C274	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C275	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C276	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
C277	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C352	NDC31HJ-271X	C CAPACITOR	270pF 50V J
C362	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C405	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C406	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C407	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M

⚠Ref No.	Part No.	Part Name	Description Local
C411	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C421	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C433	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C434	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C435	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C439	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C440	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C560	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C601	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C602	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C603	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C604	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C605	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C606	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
C607	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
C608	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C609	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C610	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C611	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C612	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C613	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C641	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C642	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C643	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C645	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C649	QETM1VM-228	E CAPACITOR	2200uF 35V M
C654	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
C655	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
C656	QETM1VM-338	E CAPACITOR	3300uF 35V M
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C663	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C664	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C666	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C681	QETM1EM-228	E CAPACITOR	2200uF 25V M
C721	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C722	NCB31CK-563X	C CAPACITOR	0.056uF 16V K
C741	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C742	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C744	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C753	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C754	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C781	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C901	QETN1EM-107Z	E CAPACITOR	100uF 25V M
C902	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C905	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C906	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C907	QETM1EM-228	E CAPACITOR	2200uF 25V M
C909	QEZ0256-128	E CAPACITOR	1200uF 10V M
C911	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C912	QETM1EM-228	E CAPACITOR	2200uF 25V M
C914	QEZ0256-128	E CAPACITOR	1200uF 10V M
C916	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C919	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C920	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R001	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R101	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R102	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R103	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R104	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R105	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R106	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R109	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R110	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R111	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R112	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R113	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R120	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R122	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R123	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R201	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R202	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R203	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R204	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R205	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R206	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R208	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R210	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R216	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R253	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R257	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R258	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R259	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R260	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R261	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R262	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R266	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R267	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R268	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R271	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R351	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R352	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R353	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R361	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R362	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R401	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R402	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R407	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R418	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
R421	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R551	QRK126J-100X	UNF C RESISTOR	10Ω 1/2W J
R552	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R555	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R556	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R557	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R558	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R559	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R560	QRK126J-100X	UNF C RESISTOR	10Ω 1/2W J
R562	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R563	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R564	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R565	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R566	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R567	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R568	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R569	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R570	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R601	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R605	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R606	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R607	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R609	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R610	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R612	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R614	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R615	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R616	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R617	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R618	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R619	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R620	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R641	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R642	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R643	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R647	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R648	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R653	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R654	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R656	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R657	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R658	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R659	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R661	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R662	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R663	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R665	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R666	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R667	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R669	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R681	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R682	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R703	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R708	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R709	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R711	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R712	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R723	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R724	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R726	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R727	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R737	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R738	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R760	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R762	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R763	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R764	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R765	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R766	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R772	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R773	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R774	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R775	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R776	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R781	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R782	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R783	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R784	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R907	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J
R908	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R910	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R911	QRK126J-5R6X	UNF C RESISTOR	5.6Ω 1/2W J
R912	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R914	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
L001	QQL244K-270Z	PEAKING COIL	27uH K
L002	QQL244K-100Z	PEAKING COIL	10uH K
L101	NQL092M-180X	P COIL	18uH M
L102	NQL092M-220X	CHIP P COIL	22uH M
L103	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
L104	QQL244K-4R7Z	PEAKING COIL	4.7uH K
L201	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
L432	QQL26AK-100Z	CHOKE COIL	10uH K
L433	QQL26AK-100Z	CHOKE COIL	10uH K
L903	QQL50AK-330Z	CHOKE COIL	33uH K
L905	QQR1401-001	CHOKE COIL	
L906	QQL26AK-220Z	CHOKE COIL	22uH K
L907	QQL26AK-820Z	CHOKE COIL	82uH K
L908	QQR1401-001	CHOKE COIL	
L909	QQL50AK-100Z	CHOKE COIL	10uH K
CN001	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN002	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN004	QGB2023M1-30	CONNECTOR	B-B (1-30)
CN005	QGB2023M1-30	CONNECTOR	B-B (1-30)
CN006	QGB1505J1-25	CONNECTOR	B-B (1-25)
CN007	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN008	QGB1509J1-55	CONNECTOR	B-B (1-55)
CN009	QGB1509J1-55	CONNECTOR	B-B (1-55)
CN012	QGB1505J1-25	CONNECTOR	B-B (1-25)
K101	NQR0389-003X	FERRITE BEADS	
K102	NQR0389-003X	FERRITE BEADS	
K901	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K903	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K904	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z
⚠TU001	QAU0392-001	TUNER	MAIN
⚠UD001	QAU0308-001	RF SPLITTER	
X101	QAX0773-001Z	CRYSTAL	18.432000MHz
X201	CSB503F30-T2	C RESONATOR	

POWER & DEF P.W. BOARD ASS'Y (SMM-2251A-H2)

REFER TO PARTS LIST IN PAGE 3-9 FOR THIS P.W. BOARD.

CRT SOCKET P.W. BOARD ASS'Y(SMM-3251A-H2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (SMM-8251A-H2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

FRONT SW P.W. BOARD ASS'Y (SMM-8951A-H2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

LINE FILTER P.W. BOARD ASS'Y (SMM-9251A-H2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

EHT P.W. BOARD ASS'Y (SMM0E251A-H2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

DEF. OSC P.W. BOARD ASS'Y (SMM0H251A-H2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

MI-COM P.W. BOARD ASS'Y (SMM0M251A-H2)

REFER TO PARTS LIST IN PAGE 3-14 FOR THIS P.W. BOARD.

SUB TUNER P.W. BOARD ASS'Y (SMM0R251A-H2)

REFER TO PARTS LIST IN PAGE 3-15 FOR THIS P.W. BOARD.

AV SW P.W. BOARD ASS'Y (SMM0S251A-H2)

REFER TO PARTS LIST IN PAGE 3-15 FOR THIS P.W. BOARD.

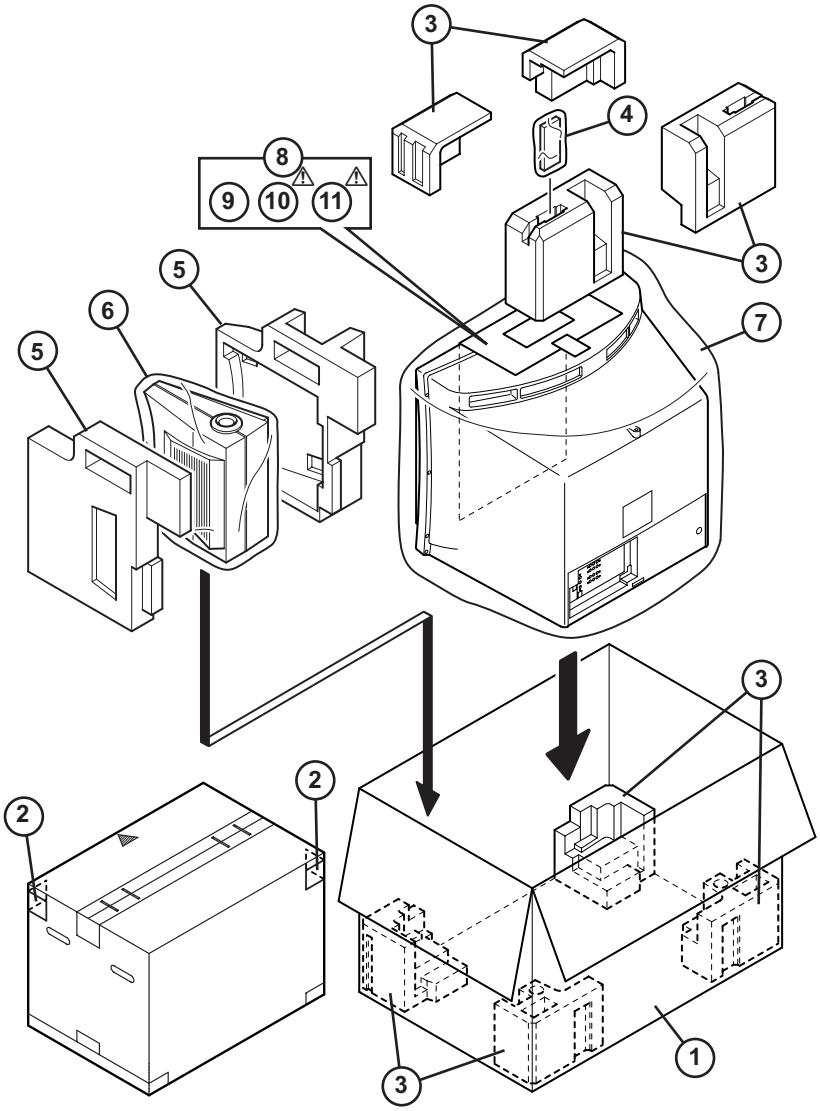
DIST P.W. BOARD ASS'Y (SMM0Z251A-H2)

REFER TO PARTS LIST IN PAGE 3-17 FOR THIS P.W. BOARD.

REMOTE CONTROL UNIT PARTS LIST (RM-C1851-1C)

⚠	Ref No.	Part No.	Part Name	Description	Local
		R25-8566	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	LC10845-071A-H	PACKING CASE		HV-Z29J4/H
	1	LC10845-068A-H	PACKING CASE		HV-Z29J4,HV-Z29J4/S
	2	GG20025-003A-H	CORNER LABEL	(x2)	
	3	GG10279-001A-H	CUSHION ASSY	8pcs in 1set	
	4	RM-C1851-1C	REMOCON UNIT		
	5	GG10290-001A-H	CUSHION ASSY	2pcs in 1set	
	6	GG30097-007A-H	POLY BAG		
	7	GG30097-004A-H	POLY BAG		
	8	GG30096-001A-H	POLY BAG		
	9	----------	BATTERY	AA/R6(x2)	
⚠	10	LCT1723-001A-H	INST BOOK	English/Chinese	HV-Z29J4/H
⚠	10	LCT1722-001A-H	INST BOOK	English	HV-Z29J4,HV-Z29J4/S
⚠	11	LCT1760-001A-H	INST BOOK	French/Russian/Arabic/Persian	HV-Z29J4/S